File No. PWD 144 GWS 69

# MYSORE GOVERNMENT SECRETARIAT

## Notes/Correspondence/Collection

Department PW Section G.1

Subject :—

Water Supply Scheme to Fertilizer Factory Harbour and Mangalore - Approval to revised estimate for Rs

Earlier References :—

Later References :—

(Classification A/B/C)

Notes Pages 17

Correspondence Pages 57

For/Not for Section Note Book

To be destroyed after 1981

M. P. Mahabaleshwar
Under Secretary to Government.

L.D

1971
25-2-71

28/6/69
25/2/71

DOCKET SHEET.

Department: PWD

File No. PWD 141 GL 69

Section General Issuga Volume:

SUBJECT

Water supply Scheme & Fertilizer factory Hanbanx -- Anss Mangalam -- appl & revised estimates for the

| Number and date | To whom sent | Instructions |
|---|---|---|
| | 2 | 3 |

Sec 21/8/70 by PW

Secy. PWD.

4273. Date 21.8.

PWD.

4362. Date 5.9. Secy to PWD 8.9

Sec PWD 22/9

8/9.

Pg 4595

24/9

Chief Min. No. 46852

24/9/70

C.S.

C. 417/70 25/9/70

5131/Proc/70.

R. & I. SECTION F D.

WT. 28/9 SO(V) 29/9/70

4320(DSi)70.

21-10-70. FD.

R & I SECTION FD. No. Date 25.11 Section WI FD(Bud)

25/11 Sri PLNR

No. 258/B 25/1/71

Min. Public Works No. 18 Date. 2/2/71

605/Proc/71

D. S. PWD (Irrgn). No. F 479 19/2

[P T O.

WD—06111—GPB—2,000 pads of 100 shts. each—4-9-69

| Number and date<br>1 | To whom sent<br>2 | Instructions<br>3 |
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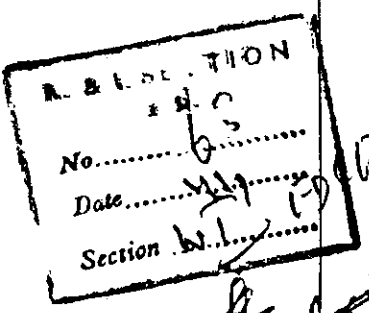


103/D (Bud)

51/1 50 W 51-17

PLN 6/1

W 053 (B/2)

B-4/21

| M. G. S. | Subject: | File No. |
|---|---|---|

R. No. 2980(69)
Letter No. PH 9.8: WSA(E)/69-70 d/20 6 69 from the C.E. (Gl).

NOTE 1

The letter of C.E.(Gl) along with Plans and estimates is for perusal. He has proposed to enhance the estimate of the above scheme from Rs.240/- lakhs to 250/-lakhs exclusively to the first stage work under execution to supply 18 million gallons of water a day. The C.E. has explained in his letter at para 5 the reasons for the enhancement of the amount.

He has also stated that the II stage which amounts to Rs.270/- lakhs has got two proposals, viz., execution of water supply scheme and the construction of a bridge across Gurpur river near Kulur with the co-operation of the C.E.(C.&B.) vide para 4 of his letter. (the G.O. No. PWD 47 PWS 68 d/23rd May 1968 is placed below).

The C.E. has also explained in detail in his letter at para 7 with regard to the rate chargeable and the rate is already charged. He has placed the detailed estimate, plans and calculation sheets for arriving at the rate per 1,000 gallons of water which are placed below.

In view of the above, the C.E. requests sanction of Govt. to the revised estimate of Rs. 270/- lakhs for the supply of 18 M.G.D. of water per day to the Fertiliser Factory, Harbour and other industries.

For consideration and orders.

28/1/69 Submitted for perusal the letter of the CE and

WD 01050—G?B—8,00,000 13-12-65

its enclosures placed below.

Mangalore is considered as one of the best sites in the Country for location of a fertiliser factory and the Government of India have issued sanction for the location of a factory in favour of M/s Malabar Chemicals & Fertilisers Ltd, in the private Sector

In order to supply water to this fertiliser factory Mangalore Town, Port area and other industries that are likely to come up, Government in their Order no. CI 9 GrMP 67 dated 24-7-67 accorded approval to a line estimate amounting to Rs. 153.00 lakhs for providing 15 M.G.D. of water. Subsequently a scheme costing Rs 171.00 lakhs for the supply of 18 MGD was prepared and the line estimate was modified to increase the scope.

In G.O. no. PWD 25 GWS 67 (B) dated 15.12.67 approval was accorded to the Tender

(X) Pages 1 to 8 of

of M/S. Indian Hume Pipe Co for the pipe line work and that of M/S Engineering Construction Co., Madras for intake-cum-pump house, pre-treatment plants, Construction of reservoir at hill top and Construction of bridge across river Cauvery.

It was reported by the Officer that the anticipated cost of the first stage work was Rs 210.00 lakhs when 9 millions gallons of water a day was supplied and the estimated cost was Rs 240.00 lakhs when 18 million gallons of water a day was supplied.

It is stated that in the first stage all the components of the water supply scheme would be designed for the 18 MGD supply except the pumpsets and pre-treatment plant. The cost of adding the required pre-treatment plant and additional pumpsets to step up supply from 9 MGD to 18 MGD is stated to Rs 30.00 lakhs

WD 01050—GPB—8,00,000 13-12-65

The CE(Q) has forwarded a detailed estimate based on tender rates and the quantities as determined, to some extent as for actuals and as per detailed investigations. According to this, the estimate for the first stage is stated to come to Rs 255.00 lakhs and that for the second stage Rs 270.00 lakhs.

In G.O.no. PWD ನಿಲ್ CMS 88 dated 23.5.88 an estimate amounting to Rs 26.00 lakhs was approved for the road cum pipe line bridge. It is stated that the estimate for Rs 26.00 lakhs does not include the cost of rocker and roller bearings and the approach roads that are necessary on the Mangalore and Sidlipi sides. The extra cost on this account is stated to come to Rs 5.00 lakhs. As suggested by the CE (C+B) if the cost of the pipe bridge Viz. Rs 11.54 lakhs is deducted from out of the total estimated cost of the bridge inclusive of bearings and the approach road which comes to

× Pages 243 CF

Rs 31.00 lakhs, the proportionate cost that is to be borne by the C.F (C+B) is stated to be roughly Rs 20.00 lakhs.

The cost for the supply of 18 million gallons a day works out to Rs 270.00 lakhs. Out of this Rs 20.00 lakhs has to be met by the C.F (C+B). Thus the net cost of the Comprehensive Scheme is stated to come to Rs 250.00 lakhs as against Rs 240.00 lakhs reported earlier.

The difference in cost is stated to be due to

1) increase in the total length of the gravity main by 868 metres as per actual execution. (The pipe line had to be taken along the road to avoid delay in the acquisition of private property comprising of mainly wet lands whose owners were unwilling to hand over the lands) This involves an extra cost of Rs 3.00 lakhs.

WD 01050—GPB—8,00,000 13-12-65

2) Escalation in the price of Steel plates - A sum of Rs 3.22 lakhs is provided;

3) provision for Concrete thrust blocks Costing Rs 3.8 lakhs.

Provision is also stated to have been made for service roads on the low lift and the high lift pumping mains, acquisition of lands, providing telephone lines to the pipe line, Construction of quarters to the staff and other miscellaneous items of work found absolutely necessary. Further provision is also stated to have been made for employment of the necessary personnel for the supervision of work at 2½% of the estimated Cost. A sum of Rs 3.8 lakhs which forms 1½% of the estimated Cost is also stated to have been provided for Contingencies.

The Cost of water per 1000 gallons is stated to have been worked out making the following.

assumptions.

i) increase on Capital Cost at 7%;

ii) depreciation Charges at 3½%;

iii) maintenance and repair Charges including Cost of establishment and Consumables as per actual Calculations;

iv) direction Charges at ½% on item iii)

The Cost of 1000 gallons when 18 MGD is supplied is 54 paise for clarified water and 59 paise for filtered water. When water is limited to 9 MGD the rate is stated to work out to 85 paise for clarified water and 93 paise for filtered water.

The above rates are stated to have been arrived at taking into Consideration the Capital Cost of Rs 255.00 lakhs including the road portion of the bridge for Rs 14.5 lakhs (which has to be borne by the Dept (C+B)) If this Cost were to be deleted from the Capital Cost, the cost of water

WD 01050—G°B—8,00,000 13-12-65

per 1000 gallons when 18 MGD is supplied is stated to work out to 48 paise for raw water and 53 paise for treated water. When water is limited to 9 MGD the rate per 1000 gallons is stated to come to 73 paise for raw water and 81 paise for treated water.

The rate is on the higher side for 9 MGD supply on account of the higher capital cost, as the Scheme is stated to have been practically designed for 18 MGD supply. The C.E.(Q) states that the rate of 60 paise per 1000 gallons approved by Govt in G.O. no. PHD 25 GWS (Vol. III) dated 2-3-68, appears to be on the basis of the old estimate and requires to be revised in the light of what is stated above. × Page 1 CF.

The C.E.(Q) requested to Communicate revised administrative approval to the estimate amounting to Rs 270.00 lakhs for the supply of 18 MGD

| M. G. S. | Subject: | File No. |
|---|---|---|

of water per day to the Fertiliser Factory, Harbour and other industries, the Stage of the Scheme however being limited to Rs 255.00 lakhs and to revise the rate for supply of water suitably.

This is a Council case and has to be considered by the Council of Ministers. This may in the first instance be referred to the Finance Department for Concurrence to the proposal of the CE (Pg).

Since the original estimate for Rs 153.00 lakhs for providing water supply to the Fertiliser Factory etc was sanctioned by the Commerce and Industries Depn, the revised estimate now forwarded by the CE (Pg) may also be perused by the C+I Deptt for Concurrence.

Note 2

Note 3

C+I Deptt have no remarks to offer reg: the revised estimate.

2. The rate of 60 paise per

C+I Deptt) 1/7/69

C.O. placed at Page 90.

3086

SECTION I.D. No. 13340 Date JUL 1969 Section F

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Sh. 2/7/69.

WD 01050—G°B—8,00,000 13-12-65

per 1000 gallons of water has been arrived at after a detailed discussion to which a reference has been made in the preamble of G.O. approving the rate. As the circumstances the rate will have to remain unchanged for the period stipulated in the G.O.

P.W.D.) Chandra 2/12

Secy. 2/12

4/XII

Note 4

Please see note 3 ante c/r to Notes 1 & 2 ante.

This may now be referred to F.A. for concurrence to the proposal d.d. E(gl) vide note 1 ante.

note 5

6/12/69

F.D.) 6/12 6/12

4598
R. & I. SECTION
P. & Clo. Dept.
No. 46680
Date 4 DEC 1969
Section GG
6 DEC 1969

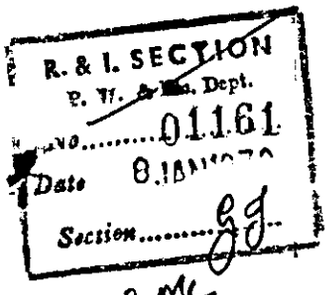
SECTION
No. 4781
Date 9
Section S.W.I

note 6

UO No.FD 4787 W&S-I/69 Finance Department,
Works & Schemes-I

CE(General) may be requested to furnish a comparative statement showing the fresh items and the original items in respect of the comprehensive revised scheme of Rs.270 lakhs. He will have to also clearly indicate how much extra is to be incurred by him from his funds and how much is to be debited to CE(C&B) and whether the latter has accepted this expenditure for being accommodated within the budget provision made for his works.

96




As stated by Secretary, C&I Dept. the rate for supply of water does not require any change unless CE(General) points out relevant authority for the same. Besides, the CE(G) will have to indicate whether the Mangalore Municipality has agreed to supply of water by PWD at the rate worked out by him.

H.C. Sreenivasa 7/1/70
(H.C.Sreenivasa)
Under Secy. to Govt.
FD (W&S)

PWD) 7.1.70

note 7

W/r to note 6 ante, a draft letter is put up for approval.

12/1/70 13/1,

note 8

13/1/70

Issued
19-1-70

note 9

Draft reminder is put up at sl. No. 4/g for approval.

20/2

Issued
23-2-70

(R. No. 700/70)

Copy of letter No. PHG/8/WSA/(G)/69-70 dt 27-2-70 from the dE(gl).

Note 10

The letter of dE(gl) is for perusal which is in response to e.r. dt 19-1-70 (Sl. No. 3/cf)

further reports in the matter may be awaited.

Note 11

PHM 26/2/70.

24/1

25/2/70

PWSA (G) WS 568 linked.

Numbers given 25/2

(R. No. 1371/70)

Letter No. PHG-8-WSA(E)/69-70 dt 18-1-70 from the dE(gl).

Note 12

The letter of dE(gl) ~~is~~ together with its enclosures is for perusal, ~~He has~~ which is w/r to G.S. dt 19-1-70 (Sl. No. 3/cf). He has furnished a comparative statement showing the fresh items and original items in respect of comprehensive revised scheme of Rs. 270/-.

He has also explained in the

second ¶ para of his letter about the extra cost is to be incurred from out of the funds allotted for water supply works and the amount debited to the C.E. (C. & B.) for proportionately for the construction of pipe-cum-road bridge across gurpur at Kulur. (file no. PWD 47 GWS 68 placed below).

flag 'x'

He has also explained the water rate which has to be agreed to by the mangalore city municipality.

~~with this information, the~~

In this connection kind attention is invited to notes 2 to 9 ante and also sl. nos. 1, 3 & 5/c of file no. PWD 103 GWS 69 (placed below) wherein the C.E. at sl. no. 5/c of the last para of the memo portion has stated that in view of the work for providing 3 M.G.D. filters at M'lore, is being taken as "deposit Contribution work", the provision of Rs. 4.24 lakhs made for the head in the project estimate of Rs. 270/- lakhs

~~PWD 103 GWS 69~~ marked

may be deleted from the total cost of ~~the scheme~~ Rs. 270/- lakhs since the cost is undertaken under "94 Capital outlay.

Hence, the total cost of the project will be reduced from Rs. 270/- lakhs to Rs. 265.76 lakhs after deducting Rs. 4.24 lakhs.

With this information, this may be referred to F.D. for concurrence (Ref. to note ante).

24/4

File leading to the issue of G.O. No. PWD 25 GWS 67 (Vol. III)/1 vide flag 'A' re:- fixation of water rate for supplying water to the fertilizer factory is placed below.

PWD 47 GWS 68
PWD 25 GWS 67 (Vol. III)
PWD 103 GWS 69
linked

29/4

The CE (H) in his letter dated 18.4.70 at flag B has furnished a Comparative Statement showing the details of the provisions in the estimate for Rs 171 lakhs as well as the present revised estimate of Rs 270½ lakhs

He has also furnished clarifications on the other points raised by F.D at note 6 N.F. The relevant files leading to the issue of G.O's referred to in the letter of the CE are placed below for reference. May be referred to F.D for favour of concurrence w/r note below:

29/4/70.

Finance Department(W&S.I)

U.O.Note No.FD/2404/W.I/70.

F.D. agrees to sanction of the revised estimate with remarks :-

i) that for the period mentioned in G.O.No.PWD 25 GMS 67 dated 2.3.68 the agreed rate of 0-60 P. per thousand gallons for supply of water to the Malabar Chemicals and Fertilisers may continue;

ii) as regards supply to the Mangalore Municipality, as suggested by C.E. the rates may be fixed after the project is completed in all respects.

iii) However, an interim agreement may be obtained from this local body that they would pay such rates as may be fixed by Government in order to avoid disputes at a future date.

30/5/70

(H.C.SREENIVASA)
Under Secretary to Government,
Finance Department(W.I)

30/5/70

PWD)

## Note 15

W/r to Notes 2 to 14 ante, draft Cabinet Note is put up for approval.

10/6/70

## Note 16

The note requires modifications. Please

11/6/70. put up revised note after consulting

19/6/70

Discussed with Dy CE PHE of CE (gl)'s office. He has been requested to furnish a revised note within a couple of days. This may be put up on receipt.

23/6/70.

## Note 17

As per instructions of S(I), draft letter put up at Sl. No. 7/ante is for approval requesting CE (gl) for forwarding comparative statement of the revised project estimate.

29/6/70

25/6

## Note 18

Issue

29/6/70

Issued

30-6-70

(R. No. 2203/70)

Letter No. PHE/8/USA CE/70-71 dt 27-6-70 from the CE (gl).

## Note 19

The letter of CE(gl) is for perusal. He requests sanction of Govt to the proposal.

We have addressed the CE(gl) requesting him to forward the comparative statement with regard to the old estimate and new revised estimate of the scheme vide Sl. No. 8/ef. The reply is still due to be received from his end.

9/7/70 Report called for from the CE(Gl) will be awaited

PWS 47 Gr 5 18 delinked from PWS 139 Gr 5 68 linked to 9/7/70

7/7/70

## Note 20

10/2 6/7/70

## Note 21

Draft reminder is put up at Sl: No. 10/ef for approval.

17/7/70

Seen
9/7/70
Issued
23-7-70
(R. No. 2 (81/70)

Letter No. PHG/8/WSD(E)/69-70 dt 22-7-70 from the CE(gl).

## Note 22

The letter of CE(gl) is for perusal

which is in response to G. R. dt/30-6-70 (Cl. No. 8/ef).

In view of the reasons explained by C.E. to the G. R. mentioned above, it is for orders as to whether a Cabinet Draft note may be prepared.

28/7/70

In view of the reasons explained by CE in his letter dt 22-7-70 (Cl. No. 12/ef), there are no fresh points are forthcoming. Hence, the revised draft Cabinet note (Note 16 ante) is put up for approval.

28/7/70

Notes 1-6 214 may be seen. A draft Cabinet seeking approval to the Re. amount Rs 265.76 lakhs for the water supply scheme to Ranipet Town and Fertilizer factory etc is placed below. for perusal & appr.

28/7

DS

— 23 —

12/8

Draft Cabinet note for approval

Secy PW

21/8/70

— 24 —

The note may be retyped as corrected. Paragraphs may be numbered. Portion sidelined 'A' on page 4 of the note may be expanded to

indicate more specifically the reasons for the increase in costs due to the several factors.

22/9

DS (T.) 22/9

—25—

Revised draft Cabinet Note is put up for approval. Necessary corrections and modifications have been made as per note 24. A comparative statement showing the details of work between the original sanctioned estimate & the present estimate, besides showing reasons for excess & savings etc, has been obtained from the CE (Elec) and is enclosed with the Cabinet Note.

Secy P.W. 3/9/70 DSI

—26—

S. VARADAN 8/9/70
Secy., P.W. & E. Dept.

Min (PW) Approved 9/9/70
K. LAKKAPPA
Min. for Public Works.

DS/S

CS / CM / CS

VEERENDRA PATIL 24/9 24/9

12/10

ತಂತಿ: ಜಲಮಂಡಲಿ

ದೂರವಾಣಿ: ಕಛೇರಿ: ೫೫೪೭೭-೫೬೬೫೧೧-೫೬೬೭೪೪
ನಿವಾಸ: ೪೦೫೫೮

# ಕರ್ನಾಟಕ ನಗರ ನೀರು ಸರಬರಾಜು ಮತ್ತು ಒಳಚರಂಡಿ ಮಂಡಲಿ

ನು. ಚಿಕ್ಕಣ್ಣಯ್ಯಪ್ಪ, ಬಿ.ಇ.ಎಂ.ಎಸ್.
(ಅಮೇರಿಕ) ಎಂ.ಐ.ಇ.
ನಿರ್ವಾಹಕ ನಿರ್ದೇಶಕರು

ಜನೋಪಯೋಗಿ ಭವನ
ಮಹಾತ್ಮಾ ಗಾಂಧಿ ರಸ್ತೆ
ಬೆಂಗಳೂರು-೫೬೦ ೦೦೧

ಆ.ಸ.ಪ.ಸಂಖ್ಯೆ:ಕಜವಮ:ತಾಸಾ:1:198:83–84 (31) ದಿನಾಂಕ: 5-7-83

ಪೂಜ್ಯ ಶ್ರೀ ರವೀಂದ್ರ,

ವಿಷಯ: ವಿಂಗಳೂರಿನ ರಾಸಾಂಯನಿಕ ಗೊಬ್ಬರದ ಕಾರ್ಖಾನೆ ಬಂದರು ಮತ್ತು ಇತರೆ ಕಾರ್ಖಾನೆಗಳಿಗೆ ನೀರು ಸರಬರಾಜು ಯೋಜನೆ 2ನೇ ಹಂತದ ಅಂದಾಜು ಪೂರ್ತಿ 64.05 ಲಕ್ಷರೂಗಳು.

ಉಲ್ಲೇಖ: 1) ಸರ್ಕಾರ ಪತ್ರದ ಸಂಖ್ಯೆ:ಫಿಪಿಂತುಬ:೭೪:ಯಂತುಬಬ್ಲ್ಯೂಎಸ್:80, ದಿನಾಂಕ:೬–೩–೮೩.

2) ಈ ಕಛೇರಿಯ ಪತ್ರದ ಸಂಖ್ಯೆ:ಕಜವಮಂ:ತಾಸಾ–1:ವಮಂ+೭: 198:೮೪–೮೫:1545, ದಿನಾಂಕ:17–5–83.

ಕಾರ್ಯದರ್ಶಿ, ಇ. ವ. ಸೆ.
ಗೆ.....
.....
2152 (1)
5.7.83

೦ ೦ ೦

ಮೇಲ್ಕಂಡ ವಿಷಯದ ಬಗ್ಗೆ ಸರ್ಕಾರಿ ಪತ್ರ ದಿನಾಂಕ:22–3–83ಕ್ಕೆ ಅನುಸಾರವಾಗಿ ವಿವರವಾದ ವರದಿಯನ್ನು ಈಗಾಗಲೇ ಉಲ್ಲೇಖ (೭)ರಲ್ಲಿ ನಿಮ್ಮ ಕಛೇರಿಗೆ ರವಾನಿಸಲಾಗಿದೆ.

ಈಗಾಗಲೇ ಉತ್ಪಾದಿಸಿದ ತ್ಯಾಗರಾಜಕ್ಕೆ ಮತ್ತೆ ಮತ್ತೆ ಜ್ಞಾಪನಾಪತ್ರಗಳನ್ನು ಹಾಕಿದರೆ ಅನಾವಶ್ಯಕವಾಗಿ ಕಾಲವ್ಯಯವು ವಾಗುತ್ತದೆ. ಆದುದರಿಂದ ತಮ್ಮ ಕಛೇರಿಯಲ್ಲಿ ಉಲ್ಲೇಖ(೭) ರಲ್ಲಿ ಕಳುಹಿಸಿರುವ ಪತ್ರವನ್ನು ಹುಡುಕಿಸುವುದೆಂದು ಕೋರುತ್ತೇನೆ.

ತಮ್ಮನಿಷ್ಠೆ
ನು. ಚಿಕ್ಕಣ್ಣಯ್ಯಪ್ಪ

ಶ್ರೀ.ಎ.ರವೀಂದ್ರ, ಐ.ಎ.ಎಸ್,
ಕಾರ್ಯದರ್ಶಿ,
ವಸತಿ ಮತ್ತು ನಗರಾಭಿವೃದ್ಧಿ ಇಲಾಖೆ,
ವಿಶ್ವೇಶ್ವರಯ್ಯ ಕೇಂದ್ರ (ಕಿರು ಗೋಪುರ)
೭ನೇ ಮಹಡಿ, ಡಾ: ಅಂಬೇಡ್ಕರ್ ವೀಧಿ,
ಬೆಂಗಳೂರು – 560 001.

ಕಾರ್ಯದರ್ಶಿಯವರ ಕಛೇರಿಯಲ್ಲಿ ಸ್ವೀಕರಿಸಿದ್ದು ದಿನಾಂಕ...6.7.83

ಭಾಗ್ಯ:4783.

/SECRET/ /1970/ /NO.PWD.141.GWS.69/

CABINET NOTE.

Subject:- C.417/70:

Water Supply Scheme to Mangalore Town, Harbour, Port area, Fertiliser Factory and other industries - approval to the revised estimate amounting to Rs.265.76 lakhs.

1. In order to supply water to Mangalore town, Harbour Port area, Fertiliser Factory and other industries that are likely to come up, an estimate amounting to Rs.153 lakhs for supplying of 15 mgd., of water was administratively approved by Government in Order No.CI.9.GMP.67, dated 24th July, 1967.

2. After further detailed examination, it was considered necessary to have a water supply scheme of 18 mgd., instead of 15 mgd. The Chief Engineer (General) framed an estimate for Rs.171 lakhs for supply of 18 mgd., making use of 39" dia. prestressed concrete pipes from the head-works at Thumbe to the supply point at Panambur. As the manufacture of prestressed concrete pipes was still in the infant stage, and involved highly skilled labour and high quality steel wire, the proposal for using pre-stressed - concrete pipes had to be dropped. Similarly, the proposal for using cast iron pipes in this scheme had also to be dropped since pipes with the required diameter of 42" were not readily available. It was, therefore, decided that hume pipes be used on this scheme. Accordingly tenders were called for and the work entrusted. The work is in progress and nearing completion.

3. The Chief Engineer (General) has now forwarded a detailed estimate based on actual requirements. The estimate for the first stage is Rs.255 lakhs and that for the second stage is Rs.270 lakhs. The first stage is designed for a supply of 9 mgd. In the first stage all the components of the water supply scheme would be designed for 18 mgd. supply except the pumpsets and pretreatment plant. The cost of adding the required pre-treatment plant and additional pumpsets to step up the supply from 9 mgd. to 18 mgd. is Rs.15 lakhs.

4. The water supply line has to cross the Gurpur Stream. Therefore, the construction of a pipe bridge was proposed and provided in the tender. Subsequently, the design was changed to a pipe-cum-road bridge and the cost of the bridge portion alone amounted to Rs.26 lakhs. This proposal of change-over has been accepted by Government in Order No. PWD.47.GWS.68, dated 23rd May, 1968. The amount of Rs.26 lakhs has been apportioned between the water supply scheme and communications as Rs.11.43 lakhs and 14.57 lakhs respectively. This amount did not include the cost of rocker and roller bearing and the approach roads that are necessary on Mangalore and Udipi sides. The extra cost on this account would be of the order of Rs.5 lakhs.

Contd...2...(P.T.O.)

Adding this to the cost to be borne by the communication portion of the estimate, the total cost to be borne by the communication section would be Rs.19.57 lakhs.

5. Under the water supply scheme, 3 mgd., capacity treatment plant has to be provided at Mangalore for the water supply of Mangalore town. It is reported by the Chief Engineer (General), that Mangalore Municipality has deposited Rs.1 lakh initially for the above work and has agreed to deposit the balance amount as and when the work progresses. This work is under progress as a deposit contribution work. Therefore, the provision of Rs.4.24 lakhs made for the above work in the project estimate of Rs.270 lakhs, will have to be deleted. The total revised cost of the water supply scheme will be, therefore, Rs.265.76 lakhs.

6. The increase in the estimated cost over and above the original estimated amount of Rs.153 lakhs is mainly due to the following reasons:-

(1) The original estimate envisaged supply of water to the extent of 15 million gallons per day, whereas the revised estimate - provides for a supply of 18 million gallons per day. On account of this major change in the scope of the work there was an increase in the several components of the scheme which are responsible for the increased cost;

(2) The increase was due to use of M.S.Pipes during execution instead of pre-stressed concrete pipes which were originally - contemplated;

(3) Increase due to tender rates;

(4) Inclusion of additional items of work which were not contemplated in the original - estimate but were found necessary for commissioning of the project as the original estimate was based on a line estimate and rough assumptions.

A comparative statement showing the provision made for the several components of the estimates in the originally sanctioned estimate of Rs.153 lakhs and the revised estimate of Rs.265.76 lakhs showing reasons for excess and savings is enclosed.

7. In Government Order No.PWD.25.GWS.67 (Vol.III) dated 2nd March, 1968 the rate for supply of water under this scheme has been fixed at 60 paise per 1,000 gallons in the initial stage with a view to showing some incentive to the Fertiliser Industry to be set up. The water rate is expected to be reviewed after 5 years by which time the factory would have attained financial stability.

Contd.....3....

/SECRET/ /1970/ /NO.PWD.141.GWS.69/

CABINET NOTE.

Subject:- C.417/70:

Water Supply Scheme to Mangalore Town, Harbour, Port area, Fertiliser Factory and other industries - approval to the revised estimate amounting to Rs.265.76 lakhs.

1. In order to supply water to Mangalore town, Harbour Port area, Fertiliser Factory and other industries that are likely to come up, an estimate amounting to Rs.153 lakhs for supplying of 15 mgd., of water was administratively approved by Government in Order No.CI.9.GMP.67, dated 24th July, 1967.

2. After further detailed examination, it was considered necessary to have a water supply scheme of 18 mgd., instead of 15 mgd. The Chief Engineer (General) framed an estimate for Rs.171 lakhs for supply of 18 mgd., making use of 39" dia. prestressed concrete pipes from the head-works at Thumbe to the supply point at Panambur. As the manufacture of prestressed concrete pipes was still in the infant stage, and involved highly skilled labour and high quality steel wire, the proposal for using pre-stressed - concrete pipes had to be dropped. Similarly, the proposal for using cast iron pipes in this scheme had also to be dropped since pipes with the required diameter of 42" were not readily available. It was, therefore, decided that hume pipes be used on this scheme. Accordingly tenders were called for and the work entrusted. The work is in progress and nearing completion.

3. The Chief Engineer (General) has now forwarded a detailed estimate based on actual requirements. The estimate for the first stage is Rs.255 lakhs and that for the second stage is Rs.270 lakhs. The first stage is designed for a supply of 9 mgd. In the first stage all the components of the water supply scheme would be designed for 18 mgd. supply except the pumpsets and pretreatment plant. The cost of adding the required pre-treatment plant and additional pumpsets to step up the supply from 9 mgd. to 18 mgd. is Rs.15 lakhs.

4. The water supply line has to cross the Gurpur Stream. Therefore, the construction of a pipe bridge was proposed and provided in the tender. Subsequently, the design was changed to a pipe-cum-road bridge and the cost of the bridge portion alone amounted to Rs.26 lakhs. This proposal of change-over has been accepted by Government in Order No. PWD.47.GWS.68, dated 23rd May, 1968. The amount of Rs.26 lakhs has been apportioned betwedn the water supply scheme and communications as Rs.11.43 lakhs and 14.57 lakhs respectively. This amount did not include the cost of rocker and roller bearing and the approach roads that are necessary on Mangalore and Udipi sides. The extra cost on this account would be of the order of Rs.5 lakhs.

Contd...2...(P.T.O.)

8. Finance Department agrees to the sanctioning of the revised estimate subject to the following remarks:-

(i) that for the period mentioned in Government Order No.PWD.25.GWS.67, dated 2nd March, 1968 the agreed rate of 0.60 paise per 1,000 gallons for supply of water to the Malabar Chemicals and Fertilisers may be continued;

(ii) as regards supply to the Mangalore Municipality as suggested by the Chief Engineer (General) the rates may be fixed after the project is completed in all respects; and

(iii) however, an interim agreement may be obtained from this local body that they would pay such rates as may be fixed by Government in order to avoid disputes at a future date.

9. Revised administrative approval is to be accorded to the estimate amounting to Rs.265.76 lakhs for the supply of 18 mgd., of water per day to the Mangalore Fertiliser Factory, Habour and other industries, the first stage of the scheme being limited to Rs.250.76 lakhs.

10. Approval of the Cabinet is requested -

For according administrative approve to the revised estimate amounting to Rs.265.76 lakhs for the supply of 18 mgd., of water per day to the Mangalore Fertiliser Factory, Harbour and other industries, the first stage of the scheme being limited to Rs.250.76 lakhs with the conditions stipulated in sub-paras (i), (ii) and (iii) of para 8.

S. Varadan 26/9

(S. VARADAN),
Secretary to Government,
Public Works and Electricity Department.

26/9/70

tsv/-

ENCLOSURE TO C.417/70.

Comparative statement of the sanctioned estimate for Rs.153 lakhs. and the revised estimate for Rs.265.76 lakhs.

(FERTILISER FACTORY WATER SUPPLY SCHEME AT MANGALORE)

| Sl. No. | Items. | Cost as per sanctioned line estimate. (15 MGD Scheme) (Rs.153 lakhs) | Costs as per revised estimate (18 MGD Scheme) (Rs.265.76 lakhs) | | Excess | Savings | Remarks and reasons. |
|---|---|---|---|---|---|---|---|
| 1. | 2. | 3. | 4. | | 5. | 6. | 7. |
| 1. | Construction of two suction well-cum-pump (including Revetments). | 1,25,000 | Infiltration well<br>M.S.Strainer<br>Intake well-cum-pumphouse<br>Switch gear Room<br>R.C.Enclosure to valve chamber | 25,000<br>2,000<br>4,90,000<br>93,000<br>8,000 | 6,18,000 | 4,93,000 | Excess due to tender rate and increase in scope of work as per actual requirement during execution. The original provision was approximate and LS (lump-sum). |
| 2. | Supplying and Erecting 5 sets of verticle turbine pump set with accessories (each of 250 HP) | 6,25,000 | Two sets of 350 H.P.Low lift & two sets of 650 High lift pumps | | 12,55,000 | 6,30,000 | -do- |
| 3. | Prestressed concrete pipe of 36" dia.for low lift-pumping main for 3000 ft. | 6,00,000 | 1000 mm M.S.Low lift pumping main. | | 6,00,000 | | |

Contd....2....

ENCLOSURE TO C.41.770.

Comparative statement of the sanctioned estimate for Rs.153 lakhs and the revised estimate for Rs.265.76 lakhs.

(FERTILISER FACTORY WATER SUPPLY SCHEME AT MANGALORE)

| Sl. No. | Items. | Cost as per sanctioned line estimate. (15 MGD Scheme) (Rs.153 lakhs) | Cost as per revised estimate (18 MGD Scheme) (Rs.265.76 lakhs) | | | Excess | Savings | Remarks and reasons. |
|---|---|---|---|---|---|---|---|---|
| 1. | 2. | 3. | 4. | | | 5. | 6. | 7. |
| 1. | Construction of two suction well-cum-pump (including revetments). | 1,12,5,000 | Infiltration well | 25,000 | | | | |
| | | | M.S.Strainer | 2,000 | | | | |
| | | | Intake well-cum-pumphouse | 4,90,000 | | 6,18,000 | 4,93,000 | - |
| | | | Switch gear Room | 93,000 | | | | Excess due to tender rate and increase in scope of work as per actual requirement during execution. The original provision was approximate and LS (lump-sum). |
| | | | R.C.Enclosure to valve chamber | 8,000 | | | | |
| 2. | Supplying and Erecting 5 sets of verticle Turbine pump set with accessories (each of 250 HP) | 6,25,000 | Two sets of 350 H.P.Low lift & two sets of 650 High lift pumps | | | 12,55,000 | 6,30,000 | - -do- |
| 3. | Prestressed concrete pipe of 36" dia.for low lift pumping main for 5000 ft. | 6,00,000 | 1000 mm M.S.Low lift pumping main. | | | 6,00,000 | | |

Contd....2....

| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|---|---|---|---|---|---|---|
| 4. | Constructing G.L.Reservoir of 7,50,000 gallons capacity. | 7,50,000 | 2.25 lakhs Gallons capacity S.R. | 2,34,000 | - | 5,16,000 Savings due to less capacity of S.R.i.e., from 7.5 lakhs to 2.25 lakhs. |
| 5. | Prestressed concrete pipe of 36" dia. for gravity main for 96,960 ft. | 96,96,000 | a) Gravity main of 1000 mm & 900 mm. 1,36,00,000 M.S.Pipes.<br>b) R.C.Pillar supports along gravity main 10,30,000<br>c) Thrust Blocks 3,80,000<br>d) Cutting earth mounds 70,400 | 1,50,80,400 | 53,84,400 | - Excess due to usage of M.S. Pipe and tender rates. |
| 6. | Construction of G.L.services reservoir of 2 MG capacity - 2 Nos. | 14,00,000 | | - | 14,00,000 | Savings since deleted. |
| 7. | Land acquisition charges | 1,00,000 | | 1,03,500 | 3,500 | - Extra cost due to actual requirement. |
| 8. | Temp.Establishment charges. | 2,00,000 | | 3,55,400 | 1,55,400 | - -do- |
| 9. | T&P Charges at 3% | 4,01,880 | | - | - | 4,01,880 Savings due to non-provision since it is a Government Scheme. |

Contd...3....

ENCLOSURE TO C.417/79.

| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|---|---|---|---|---|---|---|
| 10. | Escalation charges at 10% | 13,39,600 | | | 13,99,600 | Savings due to non-provision of the item since the items worked out as per actuals. |
| 11. | Miscellaneous and unforeseen charges. | 52,520 | 87,700 | 25,180 | - | All these additional items of works had not been contemplated in the original estimate; but are to be found necessary and essential for commissioning of projects. |
| 12. | Providing 9 MGD pre-treatment plants. | - | 9,90,000 | 9,90,000 | - | |
| 13. | Providing telephone connections. | - | 15,000 | 15,000 | - | |
| 14. | Providing and fixing Hydrants. | - | 6,000 | 6,000 | - | |
| 15. | Flood lighting and street lights. | - | 20,000 | 20,000 | - | |
| 16. | Sludge disposal arrangements | - | 10,000 | 10,000 | - | |
| 17. | Formation of approach road to quarters and low lift pumps. | - | 10,000 | 10,000 | - | |
| 18. | Approach road Mercara-Mangalore road from low lift pumps. | - | 47,000 | 47,000 | - | All these additional items of works had not been contemplated in the original |
| 19. | Approach road to pre-treatment unit | - | 15,600 | 15,600 | - | |

Contd...../4/.....

ENCLOSURE TO C.417/70.

| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|---|---|---|---|---|---|---|
| 20. | Approach road from pre-treatment unit to RCC Reservoir at Hillock. | - | 49,000 | 49,000 | - | estimate. But are to be found to be essential for commissioning the projects as the original estimate was based on line estimate and rough assumptions. |
| 21. | High lift pumping main from treatment unit to reservoir at Hillock | - | M.S.Steel pipe 2,31,000 | 2,31,000 | - | |
| 22. | a)3 MGD filter plants | - | 3,47,000 | 3,47,000 | - | These items are deleted since the same are taken under "Deposit Contribution Work". |
| | b)Quarters at filter house | --- | 77,000 | 77,000 | - | |
| 23. | a)RCC pipe cum road Bridge | - | 28,00,000 | 28,00,000 | | |
| | b)Approach road on Mangalore site | - | 3,01,000 | 3,01,000 | | |
| | c)Approach road on Udipi side | - | 1,98,000 | 1,98,000 | | |
| 24. | Triat boxes of 7.62 CM dia. | - | 20,300 | 20,300 | | |
| 25. | a)Construction of 6 MGD treatment plant | - | 5,10,000 | 5,10,000 | | |
| | b)Administrative Building | - | 95,000 | 95,000 | | |
| 26. | Pump-house and pump-set at Panambur | - | 1, 02,500 | 1,02, 500 | | |

Contd....5....

ENCLOSURE TO C.417/70.

| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|---|---|---|---|---|---|---|
| 27. | 1 lakh gallon RCC over head tank for back wash | - | 1,00,000 | 1,00,000 | - | - |
| 28. | 1 lakh G.L.Reservoir to feed low level areas | - | 57,000 | 57,000 | - | - |
| 29. | Formation of approach road to filter unit at Panambur | - | 70,000 | 70,000 | - | - |
| 30. | Staff quarters | - | 4,79,600 | 4,79,600 | - | - |
| 31. | Telephone connection for maintenance of pipe line | - | 60,000 | 60,000 | - | - |
| 32. | Store shed | - | 20,000 | 20,000 | - | - |
| 33. | Contingencies at 1½% | - | 4, 60,000 | 4,60,000 | - | - |
| 34. | 50 K.V.A. transformer | - | 30,000 | 30,000 | - | - |
| 35. | Delivery manifold at high lift pumping station | - | 20,000 | 20,000 | - | - |
| 36. | Maintenance during construction | - | 25,000 | 25,000 | - | - |
| | II STATE. | | | | | |
| 37. | Pre-treatment at Thumbe | - | 8,72,500 | 8,72,500 | - | - |
| 38. | Low lift and High lift pumps | - | 6,27,500 | 6,27,500 | - | - |
| | Total:- | 1,53,00,000 | 2,65,76,000 | 149,33,480 | 36,57,480. | |

tsv/-

SECRET



*Extract from the Proceedings of the* THIRTYTHIRD *Meeting of the Cabinet of Ministers held at Bangalore on.* 7th October, 1970.

Subject:- C.417/70:

Water Supply Scheme to Mangalore Town, Harbour, Port Area, Fertiliser Factory and other industries - approval to the revised estimate amounting to Rs.265-76 lakhs.

---

DECISION OF CABINET

A p p r o v e d.

Sd/- Veerendra Patil,

Chief Minister,
(7-10-1970).

Secy.,
P.W.D.

8/x/70

"EXTRACT"

(Syed Basheer Ahmed), 7.x.70
*Deputy Secretary to Government, G.A.D.*

*N.B.:—A Copy of order issued on the Cabinet decision may kindly be sent to Cabinet Section for record.*

A draft G.O. is put up at Sl. No. 16 for perusal & approval.

17/X/70

19/10

For perusal before issue

DSE)

19/10

- 30 -

FO may please see the draft G.O. before issue.

G.A.I. SECT.
No. 63078
Date 24 OCT 1970
Section G.J.

FO)

20/X/70

- 31 -

W.V.M. Proposal/70 (Works) I

Seen & Returned

H.C. Sreenivasa 23 X 70

H. C. SREENIVASA,
Under Secy., F.D. (Works & Estates).

22/X/1970

P.W.D)

- 32 -

The draft G.O. put up at Sl. No. 16 may kindly be issued.

10/11/70

Issue.

11/11

- 33 -

Issued on 12.11.70

- 34 -

The G.O. is issued on the subject vide Sl. No. 17/ante* whereas the ~~plans~~ estimates pertaining to the proposal have not been returned to the CE(Pl). The same will be returned to him. Draft letter is put up for approval.

8/12/70

Issue

9/12

- 35 -

Issued
11-12-70

(R. No. 4019/70)

Letter No. CA/BRG/Gl. 67-68 dt 17-11-70 from the C.E. (C.&B.).

— 36 —

For perusal of the letter of the CE (C&B) at serial no. 20.

In G.O. no. PWD HT (X) GWS 68 dated 23.5.68 approval was accorded to an estimate amounting to Rs. 26.00 lakhs for the Construction of pipe-cum-road-Bridge across Gurpur river at Kuloor, apportioning the Cost of Road-cum-pipe line-bridge between 1) the water supply Scheme and 2) the Communication Scheme as follows.

(X) flag 'Z'

| | |
|---|---|
| Water Supply Scheme | Rs 11.63 lakhs |
| Communication | Rs 14.37 " |

The letter of the CE (A) at serial no. 6 may please be perused in this Connection.

It is stated that the estimate of Rs 26.00 lakhs does not include the Cost of providing and

fixing bridge bearings. With the inclusion of this item and as per actual execution, the Cost of the bridge proper is stated to Come to Rs. 28.00 lakhs, the proportionate Cost to be allocated to the C+B sector being Rs. 15.69 lakhs. As the bridge has been changed over to a pipe-cum-road bridge, it is stated, that it became necessary to have approach roads on both the sides of the bridge, which Comes to Rs 4.99 lakhs.

Taking all these into account, the proportionate Cost to be borne by the C+B sector is stated to Come to Rs 20.00 lakhs.

The C& (C+B) states that in the printed budget for 70-71, the grant under Communications against this work is Rs 12.00 lakhs. As the work is proposed to be Completed during the current year, he requests

approval of Govt for apportionment of Rs 20.00 lakhs to Communication and also to provide a revised grant of Rs 20.00 lakhs against Rs 12.00 lakhs provided in the Budget estimate.

F.D. may please see and take further action for providing the grant of Rs 20.00 lakhs during To.Fl.

5/31/12

30/12/00. DS I / FD

Note(37) 10/2 21/1/71

U.O.53(B)-7/ Finance Department (Budget).

In the circumstances, Finance Department has no objection to the incurring of an additional expenditure of Rs.8,00,000/- over and above the existing provision of Rs.12,00,000/- on the "Construction of Road-cum-Pipe line Bridge (across Gurpur River)". Public Works Department may authorise the Chief Engineer to incur the expenditure and regularise the excess expenditure over the existing provision by reappropriation of savings under the Major Head before the end of financial year, or by obtaining Supplementary grant if there are no savings under the head. However, there may not be necessity for supplementa

M. G. S. | Subject: | File No.

-41-

The Proposal of the CE detailed in note 36 and the Concurrence of the finance department in note 37 may please be perused. A draft G.O. according approval to CE's proposal placed as Sh. No. 21. may please be approved.

P.W.D. Minister)

-42-

Approved

1/2/71.

DS(I).

K. LAKKAPPA
Min. for Public Works.

May issue

18/2/71

19/2

-43-

Issued
19-2-71

-4-

G.O. having been issued, this may be recorded 'B'.

23/2/71 US(H)

B

25.2.71

25/2

Sb. No. 21

PROCEEDINGS OF THE GOVT. OF MYSORE.
(Public Works & Electricity Dept).

Sub: As at Sl.No.20 C.F.

Ref: G.O.No.PWD.47.GWS.68, dt:23-5-68.

-:-

ORDER NO.PWD.141.GWS.69,
BANGALORE, DATED JANUARY 1971.

With reference to the letter No.CD/BRG/GL/68-69, dated 17-11-70 of the C.E.,(C&B) on the above subject, the Governor of Mysore has been pleased to accord approval for incurring an additional expenditure of Rs.3,00,000/- (in words) over and above the existing provision of Rs.12,00,000/- (in words) for the "construction of Road-cum-pipe line bridge (across Gurpur River)". The excess expenditure over the existing provision ~~may be~~ should be regularised by reappropriation of savings under the "Major Head" "103- Capital outlay on public works" ~~before the close of the financial year~~ or by obtaining supplementary grant ~~if there are no savings under the major head~~ as the case may be, before the close of the current financial year.

This issues with the concurrence of F.D. vide their U.O.Note No. 53(B)71 dt 12-1-71.

Under Secretary to Govt.
P.W.D.(Minor Irrn).

20/1

To

The C.E. C&B.
The C.E. M.I & P.H.E.
The A.G.
The F.D.
The G.O.file.

o.CD/BRG/GL.67-68. Sl. No. 20

Office of the
Chief Engineer, P.W.D.,
Communications and Buildings,
Bangalore.
17.11.70

To

The Secretary to Government,
Public Works Department,
Bangalore.

Sir,

Sub: Water supply scheme to Mangalore Fertiliser Factory-Construction of a bridge across Gorpur river.

Ref: 1.Govt.order No.PWD 47.GWS 68.dt;23-5-1968.
2.Letter No.PHG/8/WSD(E)/69-70.dt;18-4-70, of the Chief Engineer(G1),addressed to you and copied to this office. Serial no 6

.....

Government while according Administrative approval to an estimate amounting to Rs.26.00 lakhs for the above work, have also apportioned the cost of Road-cum-pipe line Bridge between the water supply scheme and the communication scheme as follows:

| | |
|---|---|
| a) Water supply scheme | Rs.11-43 lakhs. |
| b) Communications. | Rs.14.57 lakhs. |
| Total | 26.00 lakhs. |

The Chief Engineer(General) in his letter No.PHG/8/WSD(G)/69-70. dt;21-2-70, intimated that the estimate sanctioned for Rs.26.00 does not contain the provision for

1. Providing and fixing bearings at an approximate cost of Rs.1.00 lakh.
2. Approach Roads at an approximate cost of Rs.4.00 lakhs.

and requested for the concurrence of the Chief Engineer (C&B),for meeting the cost of the above 2 items under "communications", The Chief Engineer(General) was intimated in thisoffice letter of even number dt; 25-3-70, that the Government approval is necessary for the above. Accordingly, he has addressed the Government in his letter cited under reference(2). According to these proposals the revised apportionment will be;

a)Water supply scheme =11.43 lakhs.
b)Communications =19.57 lakhs or 20 lakhs (Approximate

In the printed budget for 70-71, the grant under communications against this work is Rs.12.00 lakhs(page 473). The Chief Engineer(G1), in his letter No.IPH.Bud.103/PHE/70-71.dt;27-8-1970, has intimated that the work will be completed during the current year, and to make available the entire cost of Rs.20.00 lakhs. I request that the approval of the Government may please be obtained and communicated very early, for the apportionment of Rs.20.00 lakhs to communication and also a revised grant of Rs.20.00 lakhs as against Rs.12.00 lakhs provided in the current year's Budget.

Yours faithfully,
17.11.70
for Chief Engineer(C&B)

Bsa.

The main file no. PWD 141 GWS 69 on the subject is submitted to W/S (M) yesterday. After receipt, this Ref. will be put up.

Sb. No. 22

PROCEEDINGS OF THE GOVERNMENT OF MYSORE

(PUBLIC WORKS & ELECTRICITY DEPARTMENT).

Subject:-Water Supply scheme to Mangalore Fertiliser Factory--Construction of a bridge across Gurpur river.

Reference:-Government Order No.PWD 47 GWS 68, Dated 23-5-68.

ORDER No.PWD 141 GWS 69, BANGALORE, DATED, THE 19 FEBRUARY 1971.

With reference to the letter No.CE/BNG/GL/67-68, dated 17-11-70 of the Chief Engineer,(Communications and Buildings) on the above subject, the Governor of Mysore has been pleased to accord approval for incurring an additional expenditure of Rs.8,00,000/-(Rupees eight lakhs only) over and above the existing provision of Rs.12,00,000/-(Rupees Twelve lakhs only) on the "construction of Road-cum-pipe line bridge (across Gurpur River)". The excess expenditure over the existing provision should be got regularised by reappropriation of savings under the "Major Head" "103-Capital outlay on Public Works" or by obtaining supplementary grant as the case may be, before the close of the current financial year.

This issues with the concurrence of Finance Department vide their U.O.Note No.53(-)/71 dated 12-1-71.

19/2

(R. KAPOOR),
Under Secretary to Government,
Public Works & Electy.Department.

To

The Chief Engineer,
Communications and Buildings, Bangalore.
The Chief Engineer,
H.E & P.H.E., Bangalore.
The Accountant General Mysore, Bangalore.
The Finance Department, Bangalore.
The Government Order File.

true copy 19/2/71

PRO.19-2-71.

KARNATAKA GOVERNMENT SECRETARIAT
INDEX SLIP

H&MA DEPARTMENT MISC. SECTION

HEAD Mangalore Fertilizer Factory.

SUB-HEAD Water Supply

TITLE Water supply scheme to fertilizer factory Harbour and Mangalore - approval of to revised estimate for the.

FILE NO. PWD HEL 141 GWS 69

KARNATAKA GOVERNMENT SECRETARIAT
INDEX SLIP

H&MA DEPARTMENT SECTION Misc.

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KARNATAKA GOVERNMENT SECRETARIAT
INDEX SLIP

H&MA DEPARTMENT — Misc. — SECTION

HEAD — Mangalore Fertilizer Factory.

SUB-HEAD — Water Supply

TITLE — Water supply scheme to fertilizer factory Harbour and Mangalore - approval of to revised estimate for the.

FILE NO. HM 141 GWS 69 (pwp)

Sl. No. 19

54

GOVERNMENT OF MYSORE

No. PWD 141 GWS 69

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,
*Dated, Bangalore,* 11 Dec. 1970.

FROM

The *Secretary to the Government of Mysore*
Public Works & Electricity Department.

To
The Chief Engineer,
General,
Bangalore.

Sir,

Subject:- Water Supply scheme to Mangalore Town, Harbour Port Area, Fertiliser Factory and other industries approval to the revised estimate amounting to Rs.265.76 lakhs.

---

In continuation of the Government Order No.PWD 141 GWS 69 dated 12.11.70 on the above subject, I am directed to return herewith the detailed estimates, plans and calculation sheets sent with your letter No. PHG 8 WSD(E) 69-70 dated 20.6.69.

Issued
Dated 11.12.70

Yours faithfully,

o/c

10/12

(R.P.KAPOOR)
Under Secretary to Government
Public Works & Electricity Department.

mvn/10.12

10/12

Sl. No. 18

Draft

No. PWD 141 GWS 69

To

The CE (GL).

Sir,

Sub:— As at Sl. No. 17/G.

In continuation of the G.O. No. PWD 141 GWS 69 dt/ 12-11-70 on the above subject, I am directed to return herewith the ~~detailed plans and~~ plans and Estimates & ~~Det.~~ Calculation sheets sent with your letter No PH-4 & WSD(E) 69-70 dt 20-6-69.

Yours faithfully,

9/12

a/s,

PWD (PH).

8/12

Sl. No 17

12

# P R O C E E D I N G S OF THE GOVERNMENT OF MYSORE

(Public Works and Electricity Department)

-ooo-

Subject:- Water Supply Scheme to Mangalore Town Harbour Port Area, Fertiliser Factory and other industries approval to the revised estimate amounting to Rs.265.76 lakhs.

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ORDER NO.PWD 141 CWS 69, BANGALORE, DATED 12 11 70.

With reference to the letter No.PHE/8/W[illegible](E) /69-70 dated 22.7.1970 from the Chief Engineer,(General) on the above subject the Governor of Mysore has been pleased to accord administrative approval to the revised estimate amounting to Rs.265.76 lakhs(Rupees Two Hundred and Sixtyfive lakhs and Seventysix thousand only) for the supply of 18 mgd. of water per day to the Mangalore Fertiliser Factory, Harbour and other industries, the first stage of the scheme being limited to 250.76 lakhs (Rupees Two hundred and fifty lakhs and Seventysix thousand only) with the following conditions:-

(i) that for the period mentioned in Government Order No.PWD 25 CWS 67 dated 2.3.1963 the agreed rate of 0.60 paise per 1,000 gallons for supply of water to the Malabar Chemicals and Fertilisers may be continued.

(ii) that the rates for supply of water to the Mangalore Municipality may be fixed after the project is completed in all respects; and

(iii) that an interim agreement may be obtained from the Mangalore Municipality that they would pay such rates as may be fixed by Government in order to avoid disputes at a future date.

This issues with the concurrence of Finance Department vide their U.O.Note No.FI/2404/WI/70 dated 30.5.1970.

Issued on 12-11-70

(N.P. KAPOOR)
Under Secretary to Government,
Public Works & Elecy. Department.

To
The Chief Engineer,(General) Bangalore.
The Accountant General in Mysore, Bangalore.
Commerce & Industries Department.
The Finance Department.
General Administration Department
Cabinet Section( C.417/70)

SL No 16.

Proceedings of Govt. of Mysore.

P. W. D.

Sub: Water Supply Scheme to Mangalore Town & Harbour Port area, Fertiliser Factory and other industries approval to the revised estimate amounting to Rs. 265.76 lakhs

ORDER No. PWD 141 GWS 69 Dated

Pb-type

with reference to the letter No. PHG 18/WSD (E)/69-70 dated 22.7.1970 from the Chief Engineer (General) on the above subject the Governor of Mysore has been pleased to accord administrative approval to the revised estimate amounting to Rs. 265.76 lakhs (in words) for the supply of 18 mgd. of water per day to the Mangalore Fertiliser Factory, Harbour and other industries, the first stage of the Scheme being limited to 250.76 lakhs (in words) with the following conditions:—

(i) that for the period mentioned in Govt. order No. PWD 25 GWS 67 dt. 2.3.1968 the agreed rate of 0.60 paise per 1,000 gallons for supply of water to the Malabar Chemicals and Fertilisers may be continued.

(ii) ~~That the water for as regards~~ of water Supply to the Mangalore Municipality ~~as suggested by the Chief Engineer (General) the rates~~ may be fixed after the project is completed in all respects; and

(iii) ~~That~~ an interim agreement may be obtained from the Mangalore Municipality that they would pay such rates as may be

P.T.O

fixed by Govt. in order to avoid disputes at a future date.

This issued with the concurrence of F.D. vide their U.O. Note. No. FD/24n41/W.I/70 dt. 30.5.1970.

under Secy. (Minor Dgn)
P.W.D.

To.
① The C.E. (G) Bangalore. ② The A.G. Bangalore.
③ C.S.I. Dept. 3. The Finance Dept. ④ G.A.D
Cabinet Section (C. 417/70)

Ap no 15

10

CABINET NOTE.

Subject:- Water Supply Scheme to Mangalore Town, Harbour, Port area, Fertiliser Factory, and other Industries - approval to the Revised Estimate amounting to Rs.265.76 lakhs.

F.C 25/9/70

C.417/70 25/9/70

1. In order to supply water to Mangalore Town, Harbour Port area, Fertiliser Factory and other Industries that are likely to come up, an estimate amounting to Rs.153 lakhs for supplying of 15 mgd. of water was administratively (Sl.No.1 -P.ycf). approved by Govt. in Order No.CI.9.GMP 67 dated 24-7-1967.

2. After further detailed examination, it was considered necessary to have a water supply scheme of 18 mgd. instead of 15 mgd. The Chief Engineer (General) framed an estimate for Rs.171 lakhs for ~~supplying~~ of 18 mgd. making use of 39" dia. prestressed concrete pipes* at Panambur. As the manufacture of prestressed concrete pipes was still in the infant stage, and involved highly skilled labour and high quality steel wire, the proposal ~~for~~ using prestressed - concrete pipes had to be dropped. Similarly, the proposal ~~for~~ using cast iron pipes in this scheme had also to be dropped since ~~the diameter~~ pipes with the required diameter of ~~the pipe required for 18 mgd. was~~ 42" which were not readily available. It was, therefore, (Sl.No.1 -P.1-8) decided that hume pipes be used on this scheme. Accordingly tenders were called for and the work entrusted. The work is in progress and nearing completion.

* from the head-works at Thumbe to the supply point

3. The Chief Engineer (General) has now forwarded a detailed estimate based on actual requirements. The estimate for the first stage is Rs.255 lakhs and that for the second stage is Rs.270 lakhs. The first stage is designed for a supply of 9 mgd. In the first stage all the components of the water supply scheme would be designed for 18 mgd. supply except the pumpsets and pretreatment plant. The cost of adding the required pre-treatment plant and additional

p.t.o.

pumpsets to step up the supply from 9 mgd. to 18 mgd. is Rs.15 lakhs.

4. The water supply line has to cross the Gurpur - Stream. Therefore, the construction of a pipe bridge was proposed and provided in the tender. Subsequently, the design was changed to a pipe-cum-road bridge and the cost of the bridge portion alone amounted to Rs.26.00 lakhs. This proposal of change-over has been accepted by Government in Order No.PWD 47 GWS 68 dated 23-5-1968. (Flag-'Z'). The amount of Rs.26.00 lakhs has been apportioned between the water supply schemes and communications as Rs.11.43 lakhs and 14.57 lakhs respectively. This amount did not include the cost of rocker and roller bearing and the approach roads that are necessary on Mangalore and Udipi sides. The extra cost on this account would be of the order of Rs.5.00 lakhs. Adding this to the cost to be borne by the communication portion of the estimate, the total cost to be borne by the communication section would be Rs.19.57 lakhs.

5. Under the water supply scheme, 3 mgd. capacity treatment plant has to be provided at Mangalore for the water supply of Mangalore Town. It is reported by the Chief - Engineer (General), that Mangalore Municipality has deposited Rs.1.00 lakh initially for the above work and has agreed to deposit the balance amount as and when the work progresses. This work is under progress as a Deposit Contribution work. Therefore, the provision of Rs.4.24 lakhs made for the above work in the project estimate of Rs.270 lakhs, will have to be deleted. The total revised cost of the water supply scheme will be therefore Rs.265.76 lakhs.

(Contd..3)

6. The increase in the estimated cost over and above the original estimated amount of Rs.153 lakhs is mainly due to the following reasons:-

1) The original estimate envisaged supply of water to the extent of 15 million gallons per day, whereas the revised estimate provides for a supply of 18 million gallons per day. On account of this major change in the scope of the work there was an increase in the several components of the scheme which are responsible for the increased cost.

2) The increase was due to use of M.S. Pipes during execution instead of pre-stressed concrete pipes which were originally contemplated.

3) Increase due to tender rates.

4) Inclusion of additional items of work which were not contemplated in the original estimate but were found necessary for commissioning of the project as the original estimate was based on a line estimate and rough assumptions.

A comparative statement showing the provision made for the several components of the estimates in the originally sanctioned estimate of Rs.153 lakhs and the revised estimate of Rs.265.76 lakhs showing reasons for excess and savings is enclosed.

(Flag-'W') 7. In Govt.Order No.PWD 25 GWS 67 (Vol.III) dated 2-3-1968 the rate for supply of water under this scheme has been fixed at 60 Ps. per 1,000 gallons in the initial stage with a view to showing some incentive to the Fertilizer Industry to be set up. The water rate is expected to be reviewed after 5 years by which time the factory would have attained financial stability.

8. Finance Department agrees to the sanctioning of the revised estimate subject to the following remarks:-

p.t.o.

i) that for the period mentioned in Govt. Order No.PWD 25 GWS 67 dated 2-3-1968 the agreed rate of 0.60 Paise per 1,000 gallons for supply of water to the Malabar Chemicals and Fertilisers may be continued.

ii) as regards supply to the Mangalore Municipality as suggested by the Chief Engineer (General) the rates may be fixed after the project is completed in all respects; and

iii) however, an interim agreement may be obtained from this local body that they would pay such rates as may be fixed by Government in order to avoid disputes at a future date.

9. Revised administrative approval is to be accorded to the estimate amounting to Rs.265.76 lakhs for the - supply of 18 mgd. of water per day to the Mangalore - Fertiliser Factory,Harbour and other Industries, the first stage of the scheme being limited to Rs.250.76 lakhs.

10. Approval of the Cabinet is requested:

For according administrative approval to the revised estimate amounting to Rs.265.76 lakhs for the supply of 18 mgd. of water per day to the Mangalore - Fertiliser Factory, Harbour and other Industries, the first stage of the scheme being limited to Rs.250.76 lakhs with the conditions stipulated in Paras (i), (ii) and (iii) above.

8/9/70

(S. Varadan)
Secretary to Government,
Public Works & Electy. Dept.

3/9

Comparative statement of the sanctioned estimate for R

(FERTILISER FACTORY WATER SUPPLY S

| Sl No. | Items | Cost as per sanctioned line estimate. (15 MGD Scheme) | |
|---|---|---|---|
| 1 | 2 | 3 (Rs 153 lakhs) | |
| 1 | Construction of two suction well cum pump house (including Revetment) | 1,25,000 | Infiltratio M.S.Strainer Intake well pumphouse. Switch gear R.C.Erclosu valve chambe |
| 2. | Supplying & Erecting 5 sets of verticle Turbine pump set with accessories. (each of 250 HP) | 6,25,000 | Two sets of lift & two s 650 HP High |
| 3. | Prestressed concrete pipe of 36" dia for low lift pumping main for 6000 ft. | 6,00,000 | 1000 mm M.S. pumping main |
| 4. | Constructing G.L.Reservoir of 7,50,000 gallons capacity. | 7,50,000 | 2.25 lakhs G |
| 5. | Prestressed concrete pipe of 36" dia. for gravity main for 96,960 ft. | 96,96,000 | a) Gravity m & 900mm. M.S.Pipes<br>b) R.C.Pilla along gra main<br>c) Thrust Bl<br>d) Cutting e mounds. |
| 6. | Construction of G.L.service reservoir of 2 M.G. capacity - 2 Nos | 14,00,000 | |
| 7. | Land acquisition charges | 1,00,000 | |
| 8. | Temp.Establishment charges. | 2,00,000 | |
| 9. | T & P Charges at 3% | 4,01,880 | |
| 10. | Escalation charges at 10% | 13,39,600 | |
| 11. | Miscellaneous and unforcean charges. | 52,520 | |
| 12. | Providing 9 MGD pre treatment plants | - | |
| 13, | Providing telephone connections. | - | |
| 14. | Providing and fixing Hydrants | - | |
| 15. | Flood lighting & street lights. | - | |

~~Rs~~ lakhs and the revised estimate for Rs 265.76 lakhs

CHEME AT MANGALORE)

| | Cost as per revised estimate(18 MGD Scheme) | | Excess | Savings | Remarks and Reasons. |
|---|---|---|---|---|---|
| | 4 | (Rs 265.76 lakhs) | 5 | 6 | 7 |
| well | 25,000 | | | | |
| | 2,000 | | | | |
| cum | | | | | |
| | 4,90,000 | 6,18,000 | 4,93,000 | - | Excess due to tender rate and increase in scope of work as per actual requirement during execution. The original provision was approximate and LS. (Lump Sum) |
| room | 93,000 | | | | |
| e to | | | | | |
| r | 8,000 | | | | |
| 50 HP Low | | | | | |
| ts of | | | | | |
| lift pumps. | | | | | |
| | ~~x,xx,xxx~~ | 12,55,000 | 6,30,000 | - | -do- |
| ow lift | | | | | |
| | | 6,00,000 | - | - | - |
| llons capacity | S.R | 2,34,000 | - | 5,16,000 | Savings due to less capacity of S.R ~~x.x~~ from 7.5 lakhs to 2.25 lakhs. |
| in of 1000 mm | | | | | |
| | 1,36,00,000 | | | | |
| supports | | | | | |
| ity | | | | | |
| | 10,30,000 | 1,50,80,400 | 53,84,400 | - | Excess due to usage of M.S.Pipe and tender rates. |
| cks | 3,80,000 | | | | |
| rth | | | | | |
| | 70,400 | | | | |
| | | - | - | 14,00,000 | Savings since deleted. |
| | | 1,03,500 | 3,500 | - | Extra cost due to actual requirement. |
| | | 3,55,400 | 1,55,400 | - | -do- |
| | | | | ~~x,xx,xxx~~ | ~~Savings due to non provision since it is a Govt.scheme~~ |
| | | - | - | 4,01,880 | Savings due to non provision since it is a Govt.scheme. |
| | | - | - | 13,99,600 | Savings due to non provision of the item since the items worked out as per actuals. |
| | | 87,700 | 25,180 | - | All these additional items of works had not been contemplated in the original estimate; but are to be (contd) |
| | | 9,90,000 | 9,90,000 | - | |
| | | 15,000 | 15,000 | - | |
| | | 6,000 | 6,000 | - | |
| | | 20,000 | 20,000 | - | |

...2)

| 1 | 2 | 3 | | 4 |
|---|---|---|---|---|
| 16. | Sludge disposal arrangements | - | | 10,000 |
| 17. | Formation of approach road to quarters and low lift pumps. | - | | 10,000 |
| 18. | Approach road Mercara-Mangalore road from low lift pumps. | - | | 47,000 |
| 19. | Approach road to pre treatment unit | - | | 15,600 |
| 20. | Approach road from pre-treatment unit to RCC Reservoir at Hillock | - | | 49,000 |
| 21. | High lift pumping main from treatment unit to reservoir at Hillock. | - | M.S.Steel pipe | 2,31,000 |
| 22. | a) 3 MGD filter plants<br>b) Quarters at filter house | -<br>- | | 3,47,000<br>77,000 |
| 23. | a) RCC pipe cum road Bridge<br>b) Approach road on Mangalore side<br>c) Approach road on Udipi side | -<br>-<br>- | | 28,00,000<br>3,01,000<br>1,98,000 |
| 24. | Trial boxes of 7.62 C.M dia. | - | | 20,300 |
| 25. | a) Construction of 6 MGD treatment plant<br>b) Administrative Building | -<br>- | | 5,10,000<br>95,000 |
| 26. | Pump house and Pumpset at Panambur | - | | 1,02,500 |
| 27. | 1 lakh gallon RCC over head tank for back wash | - | | 1,00,000 |
| 28. | 1 lakh G.L.Reservoir to feed low level areas | - | | 57,000 |
| 29. | Formation of Approach road to filter unit at Panambur. | - | | 70,000 |
| 30. | Staff quarters | - | | 4,79,600 |
| 31. | Telephone connections for maintenance of pipe line. | - | | 60,000 |
| 32. | Store shed | - | | 20,000 |
| 33. | Contingencies at 1½% | - | | 4,60,000 |
| 34. | 50 K.V.A. transformer | - | | 30,000 |
| 35. | Delivery manifold at High lift pumping station | - | | 20,000 |
| 36. | Maintenance during construction. | - | | 25,000 |
| | II STAGE: | | | |
| 37. | Pre-treatment at Thumbe | - | | 8,72,500 |
| 38. | Low lift and High lift pumps | - | | 6,27,500 |
| | Total | 1,53,00,000 | | 2,65,76,000 |

| 5 | 6 | 7 |
|---|---|---|
| 10,000 | - | But are to be found necessary and essential for commissioning of projects. |
| 10,000 | - | |
| 47,000 | - | All these additional items of works had not been contemplated in the original estimate. But are to be found to be essertial for commissioning the projects as the original estimate was based on line estimate and rough assumptions. |
| 15,600 | - | |
| 49,000 | - | |
| 2,31,000 | - | |
| 3,47,000 | - | These items are deleted since the same are taken under "Deposit Contribution Work". |
| 77,000 | - | |
| 28,00,000 | - | |
| 3,01,000 | - | |
| 1,98,000 | - | |
| 20,300 | - | |
| 5,10,000 | - | |
| 95,000 | - | |
| 1,02,500 | - | |
| 1,00,000 | - | |
| 57,000 | - | |
| 70,000 | - | |
| 4,79,600 | - | |
| 60,000 | - | |
| 20,000 | - | |
| 4,60,000 | - | |
| 30,000 | - | |
| 20,000 | - | |
| 25,000 | - | |
| 8,72,500 | - | |
| 6,27,500 | - | |
| 1,49,33,480 | 36,57,480 | |

Chief Engineer (General)

Sl. No. 14

44

Subject: Mangalore Fertiliser Project Government anticipation in equity capital - sanction.

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GOVERNMENT OF MYSORE

(COMMERCE AND INDUSTRIES DEPARTMENT)

GOVERNMENT ORDER NO.CI 4 CMP 66.

Dated, Bangalore, 22nd September 1966
31 Bhadrapada 1888 SE.

PREAMBLE:

The Government of India, Ministry of Petroleum and Chemicals have issued a letter of intent in favour of Messrs. International Development and Investment Company Ltd, Nussau and Messrs. Dugal Enterprises Private Limited, New Delhi for the establishment of an undertaking at Mangalore for the manufacture of the following products:-

i) Urea 1,32,000 tonnes per year.

ii) Complex Fertilisers 530,000 tonnes per year.

This letter of intent approving in principle the establishment of Fertiliser plant at Mangalore is subject the followin conditions:-

i) An Indian Company will be registered and the capital structure of the newly-formed company will be settled to the satisfaction of Government.

ii) Commercial / suppliers' credit to meet the foreign exchange requirements of the project is arrnaged on the terms no less favourable than those indicated below:

a) There should be no down payment, or if there is to be any down payment of 10% or so, this should be covered by a separate credit, repayable over a period of four years so that no immediate remittance is required from India;

b) the rate of interest should not exceed 6%:

c) the deferred payment arrangements should be on the basis of no payment for the first two years after delivery of equipment and thereafter to be spread over a period of nine or ten years;

d) foreign exchange is required for know-how etc. should also be arranged through a 3-4 year credit.

iii) No import of Ammonia will be allowed for the project.

....2/-

The grant of licence under the Industries (Development and Regulation)Act, 1951 will be considered on receipt of the following:-

i) detailed proposals for financing the scheme including arrangements for meeting the foreign exchange requirements ( subject to the terms indicated in para 2 above).

ii) definite proposals regarding terms and condition of foreign collaboration envisaged and draft collaboration Agreement;

iii) import application for the import of plant and equipment, etc., and

iv) application for permission for issue of capital.

If the details are not received within the stipulated perio of six months, this 'letter of intent' shall be deemed to have become inoperative.

The subject was considered at Government level at a meeting held on 13th August 1966 when the representatives of Messrs. Dugal Interprisers (Pvt)Ltd., were present. On account of devaluation and other factors, the previous calculations have to be revised and the representatives of Messrs. Dugal, namely, Dr.Dugal requested that the Government of Mysore should participate to the extent xhxx of Rupees two crores. This would work out roughly of the equity capital of Rs.16 crores proposed.

According to Dr.Dugal, the management of the Company would consist of eight Directors, four representing foreign collaborators, two from among promoters and one each representin the Mysore Government and Financin Institutions. The Board would be a policy making body and the technical, administrative and commercial management xxxwould be a person of outstanding ability and experience and who would be selected entirely on merit irrespective of national ty and without reference to any other consideration. Dr.Dugal gave an undertaking that Mysoreans would have the first preference in regard t the employment in practically every other category.

Dr.Dugal indicated that about 850 acres would have to be acquired for the location of the project and some 50 or 60 acres within six months. He also indicated that he would be approaching Government regarding special rates for the sppply of water and electri after negotiating with the statutory authorities concerned.

## O R D E R

1. Government are pleased to agree in principle, as a special case, to participate to the extent of Rs.2 crores representing 12½% in the equity capital of the Joint Stock Company to be formed, the investment being phased as follows:-

.....3/-

i) Rs.20 lakhs during 1966-67 if absolutely necessary;

ii) Rs 80 lakhs in 1967-68 and

iii) Rs 100/- lakhs in 1968-69.

This offer of participation in equity capital would be valid for a period fo six months with effect from 17-8-1966 on which date Messrs. Dugal Enterprises were informed of the decision of Government subject to the fulfilment of the following conditions within that period:-

i) that Messrs. International Development and Investment Company Limited, and Messrs. Du al Enterprises (Pvt) Ltd., secure an industrail licence from the Government of India;

ii) that the Articles of Association of the proposed Joint Stock Company would provide for one of the Directors being a nominee of State Government;

iii) that the proposed Joint Stock Company would be registered in Mysore State.

2. The amount required for investment shall be provided under "Industries" makin, a corresponding Cut in other sectors primarily "Agriculture" for this purpose.

By Order and in the name of the Governor of Mysore,

Sd/-
(S.N.KALABHAIRAVAN)
Deputy Secretary to Government,
Commercial & Industries Department.

/ C o p y /

RRo/ 31/7/70

No.PHG/8/WSD(E)/69-70.

Dated: 22 JUL 1970

To

The Secretary to Government,
Public Works Department, Bangalore.

Sir,

Sub: Water Supply scheme to the Fertiliser Factory, Harbour and Mangalore City - Detailed Project estimates - Reg:

Ref: Govt.letter No.PWD 141 GWS 69 dated 30-6-70.

With reference to the letter cited above, I write to state that a line estimate amounting to Rs.153 lakhs sanctioned in Government Order No.CI 9 GMP 67 dated 24/27-7-1967 was contemplated to provide only 15 MGD of water. Subsequently the total supply to the made for various consumers was further examined and it was considered to have a scheme of 18 MGD supply instead of 15 mgd. originally sanctioned by Government.

After conducting detailed surveys, an estimate amounting to Rs.171 lakhs for supplying 18 mgd.making use of 39" of prestressed concrete pipe from the head works at Thumbe to the supply point at Panambur, was got up. Tenders were called for based on this estimate.

As the manufacture of prestressed concrete pipe was still on an infant stage and involved high skilled labour and high quality steel etc., the proposal of using prestressed pipe had to be dropped. Similarly the proposal of using C.I.pipes had to be dropped, since the diameter of pipe to provide 18 mgd. was a 42" dia. and that such diameters were not readily available and that it would have taken considerable time to manufacture 42" dia. C.I.pipes. It was, therefore, decided that hume steel pipes had to be used in the scheme.

Accordingly, the tenders were accepted by Govt for providing hume steel pipes from heads works at Thumbe to the supply point at Panambur.

Again there was modification in the scope of pipe bridg across the Gurpur river. Road-cum-pipe bridge has been undertaken with due approval of Govt involving an extra expenditure of nearly Rs.20 lakhs.

Taking all the above facts into consideration and the estimate based on datas and the quantity based on actual requirement, a revised estimate amounting to Rs.270 lakhs has been got up limiting the cost of the Ist stage of works to Rs.255 lakhs.

Hence, the comparative statement showing the details of provision in the line estimate amounting to Rs.153 lakhs and the present revised estimate amounting to Rs.270/- lakhs may not convey any meaning as there has been considerable variations in the scope of the project since its original conception.

A comparative statement showing the details of provisions in the estimate of Rs.171 lakhs as well as the present revised estimate of Rs.270 lakhs has already been forwarded to Government under this office letter of even No.dated 18-4-1970. The same may please be accepted and sanction to the revised estimate may be accorded.

Yours faithfully,

Chief Engineer, Genl.

MG./2/.18.7.

Sl. No. 11

40

GOVERNMENT OF MYSORE

No. PWD 141 GWS 69

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

*Dated, Bangalore,* 23 July *1970*

FROM

The *Secretary to the Government of Mysore*
Public Works & Elecy.Department,
Bangalore.

To

The Chief Engineer,(General),
Bangalore.

Sir,

Sub:-Water supply scheme to the Fertiliser Factory,Harbour and Mangalore City - Detailed Project Estimate - Reg.

--

I am directed to invite a reference to the Government letter ~~of even~~ number dated 30-6-1970 on the above subject and to request you kindly to expedite your reply as the matter is urgent.

PWD 141 GWS 69

Yours faithfully,

23.7.70.

Section Officer,
Public Works & Elecy.Department.

O/C

ISSUED
Dated 23.7.70

21/7

Tvs20

Sl. No. 15-88 10

29

GOVERNMENT OF MYSORE

Mysore Government Secretariat,
Vidhana Soudha,
Bangalore, Dated: 1968.

No. PWD. 141 GWS 69

From

The Secretary to the Government of Mysore,
Public Works & Elecy. Department, Bangalore.

To

The Chief Engineer, ~~I.P.~~,
~~General. Investigation,~~
Bangalore.

Sir,

Subject: As at ~~Page~~ Sl. No. 9/ .....C.F.

I am directed to invite a reference to the Government letter of ~~even~~ number PWD 141 GWS 69 dated 30-6-70 ~~the subsequent reminders of even No. dated~~ and ~~your letter No. dated~~ on the above subject and to request you kindly to to expedite your reply as the matter is urgent/~~long pending.~~

~~This is pending since ..... for want of your reply.~~

Yours faithfully,

17/7

Section Officer,
Public Works Department

17/7

Sl. No. 69

Office of the Chief Engineer (General)
P.W.D., P.B. No. 40, Bangalore-1.

HG/8/WSD(E)/70-71. Dated: 27 JUN 1970

To

The Secretary to Government,
Public Works Department,
Bangalore.

Sir,

Sub: Water supply scheme to the Fertiliser Factory, Harbour and Mangalore City - Detailed Project Estimate - Reg.

Ref: This office letter even No. dated 18.4.70.

...

In inviting reference to this office letter cited above, I request you to please obtain and communicate the orders of Government approving the Revised estimate amounting to Rs.270 lakhs for the above scheme submitted to Government in this office letter of even No. dated 20.6.69.

Yours faithfully,

for Chief Engineer(General).

2203 GRB/26670.

R. & I. SECTION
P. W. & Elc. Dept.
R. 30471
Date 30 JUN 1970
Section G2

Sl. No. 8

GOVERNMENT OF MYSORE

No. PWD 141 GWS 69. MYSORE GOVERNMENT SECRETARIAT, VIDHANA SOUDHA,

*Dated, Bangalore,* ~~29-6-~~ 30 *1970.*

FROM

*Secretary to the Government of Mysore,*

Public Works & Elecy.Deptt., Bangalore.

To.

The Chief Engineer (General),
BANGALORE.

Sir,

Sub:-Water Supply Scheme to the Fertiliser Factory, Harbour and Mangalore City -detailed project estimate -reg-

With reference to your letter No.PHG/8/WSD (E)/69-70 dated 18-4-1970 on the above subject, I am directed to request you to forward a comparative statement showing the details of provisions in the line estimate amounting to Rs. 153.00 lakhs and the present revised estimate of Rs. 270.00 lakhs with reasons for excess or savings against each item.

An immediate reply is requested.

Issued
Dated 30/6

Yours faithfully,

29/6/70

(P.R.Nagendra Murthy),
Deputy Secretary to Govern ment
Public Works & Elecy.Deptt.

29/6

(I)

Sl. No. 7

Draft

37

No. PWD 141 gwS 69

To the dE (gl).

Sir,

Sub:- As at Sl. No. 6/4.

W/r to your letter No. PHG/8/WSD (E)/69-70 dt 18-4-70 on the above subject, I am directed to request you to forward a comparative statement showing the details & provisions in the line estimate & amounting to Rs. 153.00 lakhs and the present revised estimate of Rs. 270.00 lakhs with reasons for excess or savings against each item. for consideration & good ~~...~~.

An immediate reply is requested.

J. E.,

MK 29/6

Dr S,
PWD (I).

MK 29/6

Sl. No. 6

C. F. No: 45] GOVERNMENT OF MYSORE

Telegram / Telephone

OFFICE OF
Office of the Chief Engineer (General)
P.W.D., P.B. No. 40, Bangalore-1.

No. PHG/8/WSD(E)/69-70.
Encls. 2 letters Copies
one comparative statement

Date 8 APR 1970 -4-1970.

To

The Secretary to Government,

Public Works Department, Bangalore-1.

Sir.

1371

R. & I. SECTION
P. W. & Elec. Deptt.
No. 59126
Date 20 APR 1970
Section

Sub: Water Supply Scheme to the Fertiliser Factory, Harbour & Mangalore City - detailed project estimate - reg -

Ref: 1. Govt.letters No.PWD 141 GWS 69 dated 19-1-70 and 23-2-70.
2. This office letter even No.dated 21-2-70.

Adverting to the above, I write to furnish the following - replies to the points raised in the Government letter cited at reference.

A line estimate amounting to Rs.153.00 lakhs for providing 15 M.G.D. of water to the Fertiliser Factory, Harbour & Mangalore City was administratively sanctioned by Government in G.O.No.C1/9/GMP/69 dated 24/27-7-67. As it was decided to have an 18 M.G.D. Scheme, the above line estimate of Rs.153 lakhs was recast to Rs.171 lakhs and tenders were called for on the basis of the latter estimate. A comparative statement showing the details of provisions in the estimate for Rs.171 lakhs as well as the present revised - estimate of Rs.270 lakhs is enclosed for favour of perusal. So far as the reasons for the extra cost are concerned, they have been very clearly explained in this office letter No.PHG/8/WSD(E)/69-70 dated 20-6-1969.

Regarding the cost of the bridge work to be debited to the Chief Engineer (C&B), it has to be stated that Government while - according approval to the estimate for Rs.26.00 lakhs for the construction of pipe-cum-road bridge across Gurpur river at Kulur vide G.O.No.PWD 47 GWS 68 dated 23-5-68 have apportioned the cost to be debited to the Communication and Buildings Sector as Rs.14.57 lakhs. This estimate of Rs.26.00 lakhs does not include the cost of providing and fixing bridge bearings. With the inclusion of this item and as per actual execution, the cost of the bridge proper works out to Rs.28.00 lakhs. A detailed estimate for Rs.28.00 lakhs is enclosed as a part of the comprehensive scheme for Rs.270 lakhs already submitted to Government distributing the cost of Rs.28 lakhs in the same proportion as approved by Government, the proportionate cost to be allocated to the Communications & Buildings Sector bein

being Rs.15.69 lakhs. As the bridge has changed over to a pipe-cum-road bridge; it became necessary to have approach roads on both the sides of the bridge. The cost of the approach roads amounts to Rs.4.99 lakhs, which also is to be suitably debited to the Communications & Buildings Sector. Taking all this into account, it has been intimated to the Government in this office letter dated 20-6-1969, that the proportionate cost debitable to the Communications & Building Sector would be Rs.20.00 lakhs. The Chief Engineer (C & B), vide his letter No.CD/BR4/GL/67-68 dated 25-3-1970 addressed to this office (copy enclosed) has stated that the Government has already been intimated (vide his letter of even No.dated 26-3-68) that extra cost over and above the provision made in the Fertiliser Factory Water Supply Scheme towards the above bridge will have to be met under 103.C.O. of C & B.Sector. This is also appearing in para 2 of the G.O.No.PWD 47 GWS 67 dated 23-5-68. However Chief Engineer (C & B) has now reiterated to obtain the orders of Government for the revised estimate and for the apportionment of extra cost of Rs.20 lakhs over and above the provision of Rs.11.43 lakhs made in the estimate for of Fertiliser Factory Water Supply Scheme, to the C&& B Sector. The same may please be obtained and communicated.

Flag 'X'

A sum of Rs.15.00 lakhs had already been provided in the Budget of the year 69-70 under the head "103- Capital Outlay on Public Works - U.Development Schemes - Communications" (Page 418 of Printed Budget for 69-70) to meet the expenditure during 1969-70. This year also a provision of Rs.12 lakhs has been made under 103. C.O. for this work (vide page 473 of Appendix-E).

Flag 'W'

At present the rate for the supply of water to the Fertiliser Factory at 60 paise per 1000 gallons has been approved in G.O.No.PWD 25 GWS 67 Vol.III, Bangalore, dated 2nd March 1968.

Mangalore Municipality has unanimously agreed for the purchase of water from this scheme. A copy of the relevent resolution is enclosed herewith. So far as the rate is concerned, the same has not been intimated to the Municipality as the rate at which water is to be supplied to the Mangalore Municipality will depend on the rate to be worked out on No-profit

No-Profit - No Loss Basis from time to time. Due to fluctuations in the rates of consumables articles as also Power Tariff, it will be desirable to fix up the rates after the project is completed in all respects and the Municipality will have to agree to pay the rate of supply.

I request that approval of the Government to the revised estimate of Rs.270.00 lakhs may be obtained and communicated early.

Yours faithfully,

for Chief Engineer, General. 17/4/70

"Draft approved by the Chief Engineer"

MG.5/-17.4.

Copy of letter No. CD.BRG. 67-68 dated 25-3-1970 from the Chief Engineer, Communications & Buildings, Bangalore to the Chief Engineer(General), Bangalore.

---

Sub:- Construction of pipe-cum-road bridge across Gurpur river near Kulur for the fertiliser factory water supply scheme - Mangalore.

Ref: Your letter No. PHG.8; WSD(G)69-70 dt.21-2-70.

---

With reference to the above, I have to state that it has already been reported to Government in this office letter of even No. dated 26-3-1968 (and copy forwarded to you) that the extra cost over and above the provision in the Mangalore Fertiliser Factory Water Supply Scheme towards the pipe-cum-road bridge will have to be met either fully or in any other proportion by the (C&B) budget under "103 Capital outlay. This is also appearing in para 2 of the preamble to Government Order No. PWD. 47 CWS 68 dated 23-5-1968. Hence the Govt. approval for the revised estimate may please be obtained for the apportionment of extra cost over and above Rs.11.43 lakhs provided in the estimate for water supply to fertiliser at Mangalore to the communication scheme.

---

/ Copy /

for Chief Engineer(General)

nrr/-17470.

32

Copy of letter No. F.Dis.26849/67 dated 6-12-1967 from Sri K. Vishvanath Kamath, B.Sc., A.M.B.I.M(Lond) President, City Municipal Council, Mangalore, addressed to the Executive Engineer, ~~Spwx~~ P.H.E. Division, Mangalore.

...

Sir,

Sub: Water Supply Scheme to Fertilizer Factory Harbour and other Industries - Regarding.

Ref: Your ref. No.10/WS/FF/INV/JE1/66-67 dated 17-11-1967.

...

I enclose herewith a copy of C.R.No.1196 dated 28-11-1967 agreeing to purchase 3.00 MGD of water from Government.

Sd/-
PRESIDENT,
City Municipal Council.

Encl: 1
Copy to F4 with enclosures.

Copy of the Council res. No.1196 dated 28-11-1967.

...

F.4/26849/67.

Letter No. 10/WS.FF.IND.JE.1/66-67 dated 17-11-1967 from the Executive Engineer, P.H.E.Division, Mangalore conveying the proposal of executing Water Supply Scheme for the benefit of Fertilizer Factory, and other Industries and requesting to communicate council resolution agreeing to purchase 3.00 MGD. of water from Government which will be made available by April 1969 till other industries come up and this office note requesting the council to decide.

C.R.No.1196 dated 28-11-1967: This Council agrees to purchase 3.00 MGD of water from Government.

...

Sd/-
PRESIDENT,
City Municipal Council.

/ TRUE COPY/

Executive Engineer, P. W. D.,
SPECIAL WATER SUPPLY DIVISION,
MANGALORE-2.

31/1

COMPARATIVE STATEMENT SHOWING THE ITEMS OF WORK AS P

| Sl. No. | Items of work. | Cost as per the original Estimate in Lakhs. |
|---|---|---|
| (1) | (2) | (3) |
| 1. | Construction of 8 M.dia. C.R.Masonry Intake Well cum Pump house at Thumbe. | 2.40 |
| 2. | Providing and installing pumping machinery for Low Lift and High Lift Pumping Stations. | 11.90 |
| 3. | Providing, laying and jointing Low Lift pumping Main. | 5.20 |
| 4. | 18 M.G.D. Water Treatment Plant at High Lift at Thumbe and filtration plant at Mangalore and filtration plant at Panambur. | 26.209 |
| 5. | Providing, laying & jointing High Lift Pumping Main. | 2.000 |
| 6. | Construction of 2.25 Lakhs gallon capacity R.C.C.Tank on Top of hillock at Thumbe. | 1.500 |
| 7. | Providing, laying and jointing Gravity main from Thumbe to Panambur. | 101.00 |
| 8. | Construction of Pillar supports for Gravity main. | 6.000 |
| 9. | Construction of bridge across Gurpur river near Kulur. | 7.65 |
| 10. | Providing Staff quarters at Low Lift and High Lift stations at Thumbe at filtration plant at Mangalore and at filtration plant at Panambur. | 2.782 |
| 11. | Providing Telephone connection interlinking Thumbe, Mangalore and Panambur. | 0.070 |
| 12. | Maintenance during construction stage. | 0.050 |
| 13. | Construction of Store shed and field office. | 0.200 |
| 14. | Land Acquisition charges. | 1.500 |
| 15. | Petty supervision and unforseen charges. | 2.539 |

ER ORIGINAL ESTIMATE AND THE REVISED ESTIMATE.

| Cost as per Revised Estimate in Lakhs. (4) | Excess in Lakhs. (5) | Savings in Lakhs. (6) | Remarks. (7) |
|---|---|---|---|
| 4.90 | 2.500 | .. | Due to tender rate and increase in scope of work as per actual requirement during execution. |
| 18.825 | 6.925 | .. | |
| 6.000 | 0.800 | .. | Due to the usage of M.S.Pipes and tender rate. |
| 31.610 | 5.301 | .. | Due to tender rate. |
| 2.310 | 0.310 | .. | Due to tender rate. |
| 2.700 | 1.200 | .. | Due to Tender rate. |
| 136.000 | 35.000 | .. | The Estimate envisaged the use of prestressed concrete pipes. The accepted tender is for M.S.Pipes and hence the excess. |
| 10.300 | 4.300 | .. | Tender rate and provision of saddle support, originally not envisaged. |
| 28.000 | 20.350 | .. | Due to converting pipe acqueduct to pipe-cum-road bridge resting on twin Circular wells. |
| 4.796 | 2.014 | .. | Tender rates and provision of adequate No. of quarters based on actual requirements. |
| 0.750 | 0.680 | .. | Provision made after ascertaining market rates. |
| 0.250 | 0.200 | .. | .. |
| 0.200 | .. | .. | .. |
| 1.035 | .. | 0.465 | As per actuals. |
| 3.654 | 1.015 | .. | Extra cost due to actual requirements. The expenditure will be limited to actuals. |

contd....2

| (1) | (2) | (3) |
|---|---|---|

ITEMS OF WORK NOT CONTEMPLATED IN THE ORIGINAL ESTIMATE BUT ARE ESSENTIAL.

| | | |
|---|---|---|
| 1. | Infiltration well in the river bed. | .. |
| 2. | Providing and fixing M.S.Strainers. | .. |
| 3. | Construction of Switchgear room at Low Lift. | .. |
| 4. | Providing enclosure to Valve chamber. | .. |
| 5. | Providing and fixing hydrants for clariflo-cculator wash. | .. |
| 6. | Providing flood lighting at Low Lift and High Lift stations at Thumbe. | .. |
| 7. | Providing sludge disposal arrangement at Treatment plant at Thumbe. | .. |
| 8. | Formation of approach roads at Low Lift, High Lift stations and at Treatment site at Panambur. | .. |
| 9. | Construction of Thrust blocks for gravity and pumping mains. | .. |
| 10. | Cutting mounds along the alignment of gravity main. | .. |
| 11. | Forming approaches to bridge on Mangalore and Udipi sides. | .. |
| 12. | Drilling trial bores in the bed of river Gurpur. | .. |
| 13. | Providing, erecting and commissioning 50 KVA additional ~~filtration~~ sub-station Transformer at High Lift Pumping station. | .. |
| 14. | Supplying and laying delivery manifold of M.S.Pipes, Suction pipes etc. | .. |
| 15. | Contingencies. | .. |
| 16. | Miscellaneous and rounding | .. |
| | GRAND TOTAL:Rs. | 171.000 |

| (4) | (5) | (6) | (7) |
|---|---|---|---|
| 0.250 | 0.250 | .. | |
| 0.020 | 0.020 | .. | |
| 0.930 | 0.930 | .. | |
| 0.080 | 0.080 | .. | |
| 0.060 | 0.060 | .. | |
| 0.200 | 0.200 | .. | |
| 0.100 | 0.100 | .. | All these additional items of work had not been contemplated in the original estimate, but are found to be essential for commissioning the project. |
| 1.916 | 1.916 | .. | |
| 3.800 | 3.800 | .. | |
| 0.704 | 0.704 | .. | |
| 4.990 | 4.990 | .. | |
| 0.203 | 0.203 | .. | |
| 0.300 | 0.300 | .. | |
| ~~1.600~~ 0.200 | ~~1.600~~ 0.200 | .. | |
| 4.600 | 4.600 | .. | |
| 0.517 | 0.517 | .. | |
| 270.000 | 99.465 | 0.465 | |

NET EXCESS: 99.00 Lakhs.

Executive Engineer,
Sol.Water Supply Divn.Mangalore-3.

Sl. No. 50

C. I. No. 45]

# GOVERNMENT OF MYSORE

OFFICE OF

Office of the Chief Engineer (General)
P.W.D. in Mysore, Bangalore.

Telegram / Telephone

No. PHG/8/WSD(G)69-70.
Encls.

Date 21 Feb 1970

To

The Chief Engineer,
Communications & Buildings,
Bangalore.

700

R. & I. SECTION
P. & Tele. Dept.
No. 9782
Date 23 FEB 1970
Section ..... GG

Sub:- Construction of pipe-cum-road bridge across Gurpur river near Kulur for the fertiliser Factory Water Supply Scheme, Mangalore.

---

With reference to G.O.No. PWD. 47/GWS/68 dated 23-5-68, I write to state that Govt. had apportioned the cost of the Road-cum-pipe line Bridge between the Water Supply Scheme and the Communications Scheme as follows:-

| | | |
|---|---|---|
| a. Water Supply Scheme. | ... | Rs.11.43 lakhs. |
| b. Communication: | ... | Rs.14.57 lakhs |
| Total: | | Rs.26.00 lakhs |

This cost of Rs.26.00 lakhs does not include.

1. Providing and fixing Rocker-cum-Roller Bearings at a cost of Rs.1.00 lakh and
2. approach roads on each side of the bridge costing Rs.4 lakhs.

The Government have also accepted that only the cost of the pipe bridge should be debited to the estimate for the Fertiliser Factory Water Supply Scheme, the balance being met by the Communications and Buildings. Deducting the cost of the pipe line bridge which is Rs.11.43 lakhs, out of the total estimate of the bridge inclusive of the bearings and the approach roads which amounts to Rs.31.00 lakhs proportionate cost, that is to be borne by the communications and Buildings zone would be roughly Rs.20.00 lakhs.

Taking all this into account, it has been intimated to the Government in this office letter of even No. dated 20-6-1969 while submitting the revised estimate for Rs.270 lakhs, the proportionate cost tobe debited to C & B Section would be Rs.20 lakhs. A sum of Rs.15 lakhs has already been provided in the Budget of 69-70 under head "103 - C.C. on Public Works - 4 Development Schemes Communications"(Page 418 of the Revised Budget for 1969-70) to meet the expenditure of this year.

4/MW

However, Govt. in their letter No. PWD. 141 GWS/69 dated 19-1-1970 (copy enclosed) addressed to this office have sought clarification as to how much extra cost is to be incurred from out of the funds allotted for water supply works and how

...2/

and how much cost to be debited to Chief Engineer(C&B)' and furt reiterated whether Chief Engineer (C&B) has accepted this expenditure for being accommodated within the Budget Provision made for this work may also be indicated.

I therefore, request you to communicate your concurrence for the apportionment$ of Rs.20 lakhs to communications & Build Sectn out of the total cost of Rs.31.00 lakhs for the above Bridge and to make necessary proposals in the Budget of 1970-71 so as to enable this office to write to Government in this matter.

Early action in the matter is requested.

Yours faithfully,

Sd/-

CHIEF ENGINEER (GENERAL) PWD.

nrr/-20.2.70.

Copy to:-

1. The Secretary to Government, P.W.D.Bangalore with reference Government letter No. PWD. 141/GWS/69-719-1-170. Further report to Government will be submitted on hearing from Chief Engineer (C&B), Bangalore.
2. The Superintending Engineer, ~~Special Water Supply Division~~, ~~Mangalore for information.~~ P.H.E. Circle, Bangalore.
3. The Executive Engineer, Spl. Water Supply Division, Mangalo for information.

DRAFT APPROVED BY THE CHIEF ENGINEER.

21.2.70

for Chief Engineer(General)

Sl. No. 46/16

GOVERNMENT OF MYSORE

No. PWD 141 GWS 69

Mysore Government Secretariat,
Vidhana Soudha,
Bangalore, Dt. ~~Feb. 1968.~~ 23.2.70

From

The Secretary to the Govt. of Mysore,
Public Works & Electy. Department, Bangalore.

To

The Chief Engineer, ~~I, South/North,~~ (General), ~~Investigation.~~
Bangalore/~~Dharwar~~

Sir,

Sub:-As at page Sl. No. 3/.....C.F.

---

I am directed to invite a reference to the Government letter/~~Memo~~ No. PWD 141 GWS 69 dated 19-1-70 ~~the subsequent reminders of even No. dated~~ ~~and your letter No. dated~~ on the above subject and to request you kindly to expedite your reply as the matter is urgent/~~long pending.~~

~~This is pending since~~ ~~for want of your reply.~~

Yours faithfully,

20/2/70

Section Officer,
Public Works Department (G.I.).

Issued
Dated 23.2.70

20/2

Sl. No. 83 15 2)

GOVERNMENT OF MYSORE

No. PWD 141 GWS 69.

Mysore Government Secretariat,
Vidhana Soudha,

*Dated, Bangalore,...*14 Jan, 1970.

From

The *Secretary to the Government of Mysore*
Public Works & Elecy. Department.

To

The Chief Engineer,
(General),
BANGALORE.

Sir,

Sub: Water Supply scheme to the Fertiliser Factory, Harbour and Mangalore City - Detailed project estimate.

---

With reference to your letter No.PHG.8.WSD(E)69-70, dated 20-6-69 on the above subject, I am directed to request you to furnish a comparative statement shewing the fresh items and the original items in respect of the comprehensive revised scheme of Rs.270/- lakhs. It may also be clearly indicated as to how much extra is to be incurred from out of the funds allotted for water supply works and how much is to be debited to Chief Engineer, (Communications and Buildings), whether the Chief Engineer, (Communications and Buildings), has accepted this expenditure for being accommodated within the budget provision made for his works may also be indicated.

I am further to state, that the rate for supply of water does not require any change unless the relevant authority is pointed out for the same. Whether the Mangalore Municipality has agreed to supply of water by P.W.D. at the rate worked by you, may also be indicated.

An early reply is requested.

Yours faithfully,

16/1/70

(M. Chamnappa),
Deputy Secretary to Govt.,
Public Works & Elecy. Department. (I)

Issued
Dated 19.1.70

16/1

MSVG. 16170.

Sl. No. 2.

draft

No. PWD 141 GWS 69

To

The C.E. (GL).

Sir,

Sl. No. 1

Sub:- AA at ~~Sr. 13~~/G.

- - -

W/r to your letter No. PHG 8 WSD(E) 69-70 dt 20-6-69 on the above subject, I am directed to request you to furnish a comparative statement showing the fresh items and the original items in respect of the ~~comparative statement~~ Comprehensive revised scheme of Rs. 270/- lakhs. It may also be clearly indicated as to how much extra is to be incurred by you from ~~out of~~ the funds allotted for water supply work and how much is to be debited to C.E. (C&B). ~~and~~ whether the CE (C&B) has accepted this expenditure for being accommodated within the

P.T.O.

budget provision made for his works. may also be indicated.

I am further to state that ~~the~~ rate for supply of water does not require any change unless ~~you points~~ ~~the~~ relevant authority is pointed out for the same. ~~I am also to request you to indi-~~ ~~cate~~ whether the Municipality has agreed to supply of water by P.W.D. at the rate worked by you, may also be indicated

An early reply is requested.

Yours faithfully,
13/1/70
for Secretary,
PWD (I).
12/1

Serial no 6

Office of the Chief Engineer (General)
P.W.D., P.B. No. 40, Bangalore-1

NO, PHG. 8. WSD (E)-69-70

Encl: Plans - one copy
Estimate - one copy.

Dated: 29 JUN 1969

To

The Secretary to Government,
Public Works Department, Bangalore.

Sir,

2480

R. & I. SECTION
P. & Elec. Dept.
No 18839
Date 23 JUN 1969
Section 49

Sub: Water Supply scheme to the Fertiliser Factory, Harbour and Mangalore City - Detailed project estimate.

---

Ref: 1) Government letter No.PWD 47 GWS 68 dated 2-4-68.

2) This office letter No.PHG/8/ WSD/67-68 dated 2-4-1968.

---

I write to state that a line estimate amounting to Rs.153.00 lakhs for providing water supply to the Fertiliser Factory, Harbour and other Industries at Mangalore is administratively sanctioned by Government - vide Order No.CI 9 GLP 67 dated 24-7-67. This scheme contemplated a total supply of 15 M.G.D. only. Later on it was found that a scheme for the supply of 18 M.G.D. was necessary and the line estimate was modified to increase this scope and details were prepared for calling for tenders. The detailed estimate amounted to Rs.171.00 lakhs.

2. Government accepted the tender of M/S. Indian Hume Pipe Company for the pipe line work and that of M/S. Engineering Construction Corporation, Madras for the other works, viz., intake-cum-pump house, pre-treatment plants, construction of reservoir at hill top and construction of bridge across the river Gurpur. After the tenders were accepted, a report was made to Government in this office reference cited at (2) above, intimating the financial liability on account of the tender premium. The anticipated cost of the first stage work under execution would amount to Rs.210.00 lakhs when only 9 million gallons of water a day would be supplied and the estimated cost would be Rs.240 lakhs when 18 million gallons of water a day would be supplied. In the first stage, all the components of the water supply scheme would be designed for the 18 M.G.D. supply except the pump sets and the pre-treatment plant. It was reported to Government that the cost of adding the required pre-treatment plant and additional pumps to step up supply

-2-

Chief Engineer (Gene
No. 2), Bangalore-1



supply from 9 M.G.D. to 18 M.G.D. would be Rs.30.00 lakhs (Rs.210 lakhs + Rs.30 lakhs = Rs.240 lakhs).

3. A detailed estimate based on the tender rates and the quantities as determined, to some extent as per - actuals and as per detailed investigation, has now been - got up. The estimate for the first stage amounts to - Rs.255.00 lakhs and for the second stage it amounts to - Rs.270.00 lakhs.

4. At the time when a report was submitted to Government on 2-4-68, the cost of the bridge was taken as Rs.11.54 lakhs only being the tendered amount for the pipe bridge only. Subsequently the design was changed to pipe-cum-road bridge and the estimated amount of the bridge portion alone amounted to Rs.26.00 lakhs. This proposal of change-over has been accepted by Government. The amount of Rs.26 lakhs does not, however, include the cost of rocker and - roller bearings and the approach roads that are necessary on the Mangalore and the Udipi sides. The extra cost on this account would be of the order of Rs.5.00 lakhs. Government have also accepted that only the cost of the pipe - bridge should be debited to the estimate for the Fertiliser Factory Water Supply Scheme, the balance being met by the Chief Engineer, Communications & Buildings. Deducting the cost of the pipe bridge which is Rs.11.54 lakhs out of the total estimate of the bridge inclusive of the bearings and the approach roads which amounts to Rs.31.00 lakhs, the proportionate cost that is to be borne by the Chief Engineer, Communications and Buildings would be roughly Rs.20.00 lakhs.

5. As has been mentioned already in para 3 above, the cost of the present estimate for the supply of 18 million gallons a day works out to Rs.270.00 lakhs. Out of this amount, Rs.20.00 lakhs has to be met by the Chief Engineer, Communications and Buildings. Thus the net cost of the - comprehensive scheme works out to Rs.250 lakhs as against the figure of Rs.240 lakhs reported in this office letter cited at reference (2) above. The difference in cost of Rs.10.00 lakhs is due to the following reasons:-

(i) The total length of the Gravity main has increased by 868 meters as per actual execution. The pipe line had to be taken along the road to avoid delay in the acquisition of private property comprising of

11 83:20
No. 40, Secretariat



of mainly wet lands, whose owners were unwilling to hand over the land. It was considered not desirable to wait till the land was acquired which would take one or two years. This increased length involves an extra cost of Rs.3.00 lakhs.

(ii) A sum of Rs.3.22 lakhs has been provided in the estimate for the fluctuations in market prices of steel plates. According to the agreement, the increase in prices arising subsequently to the date of agreement, has to be paid, to the firm. There has already been a price increase of Rs.89/- per ton. For the escalation in prices, a sum of Rs.3.22 lakhs has been provided in the estimate.

(iii) In the entire length of the pipe line of 26,000 meters, it has become necessary to provide 217 bends ranging from $3^{0}$ to $90^{0}$ depending upon the configuration of the alignment. At each of the bend points, an unbalanced thrust is created due to the change of direction of the water flow. To counteract this force and avoid possible damage to the pipe line, concrete thrust blocks have been provided. The cost of this thrust blocks amounts to Rs.3.8 lakhs.

6. The above 3 items alone account for the increase of Rs.10.00 lakhs over the sum of Rs.240.00 lakhs as reported to Government earlier. The other provisions like the service roads on the low lift and high lift pumping mains, acquisition of lands, providing telephone lines to the pipe line, construction of quarters to the staff and other miscellaneous items of work found absolutely necessary have been made. Provision is also made for the employment of necessary personnel for the supervision of work at 2½% of the estimated cost. Although it is a common practice to provide for contingencies @ 5% of the estimated cost, this item is limited to Rs.5.00 lakhs only which forms about 1½% of the estimated cost.

7. Based on the present stimate of Rs.270.00 lakhs, the cost of water per 1000 gallons is worked out in two parts (1) for the period when only 9 M.G.D. is supplied, (2) for the period when 18 M.G. of water is supplied. It may be pointed out here that except for the pre-treatment plant and the pumps, all other components of the scheme are designed for 18 M.G.D. supply. It will only be necessary to add one more pumpset at low lift and high lift stations and two clariflocculators at the pre-treatment plant at an approximate cost of Rs.15.00 lakhs only. The cost of water per 1000 gallons is worked out making the following assumptio..

(1) Interest on capital at 7%

(2) Depreciation charges at 3½%

(3) Maintenance and repair charges including cost of establishment and consumables as per actual calculations.

(4) Direction charges at 1/2% on item (3) to cover direction charges.

It is found that the cost of 1,000 gallons when 18 M.G.D. is supplied is 54 paise for clarified water and 59 paise for filtered water. When the supply is limited to 9 M.G.D., the rate works out to 85 paise for clarified water and 93 paise for filtered water. The rates have been arrived at taking into consideration of the entire capital cost of Rs.255 lakhs (for the first stage) including the road portion of the bridge No.14,5 lakhs as per G.O.No.PWD 47 GAS 68 dated 23-5-68, which is to be borne by Chief Engineer (Communications & Buildings). If the above portion of cost were to be deleted from the capital cost, the cost of water per 1000 gallons would work out to 48 paise for raw water and 53 paise for treated water when 18 M.G.D. is supplied. When the supply is limited to 9.00 M.G.D. the rate per 1000 gallons would work out to 73 paise for raw water and 81 paise for treated water. Both the statements are appended with the estimate. The rates are on the high side for 9 M.G.D. supply on account of the high capital cost as the scheme is practically designed for 18 M.G.D. supply. Government in their order No.PWD 25 GAS 67/Vol-III dated 2-3-1968 have approved a rate of 60 paise per 1000 gallons presumably on the basis of the old estimate. The rate perhaps requires to be revised in the light of what has been said above.

8. I request early orders of Government according revised administrative approval to the estimate of Rs.270.00 lakhs for the supply of 18 M.G. of water per day to the Fertiliser Factory, Harbour and other industries, the first stage of the scheme however being limited to Rs.255.00 lakhs. The detailed estimate, plans and calculation sheets for arriving at the rate per 1000 gallons of water are also enclosed for favour of perusal of Government.

Yours faithfully,

9/6/69

CHIEF ENGINEER (GENERAL).

R. 18/6 16/6

..G.4/-

Subject:- Mangalore Fertiliser Project - Extending water facility to Malabar Chemicals & Fertilisers Ltd. - Sanction.

GOVERNMENT OF MYSORE
(COMMERCE & INDUSTRIES DEPARTMENT)

GOVERNMENT ORDER No.CI 9 GMP 67
Bangalore, dated the 24th July 1967 / Shravana 2, Saka Era 1889.

READ:-

1) Government Order No.CI 4 GMP 66 dated 22-9-1966.
2) Letter No.P&D/28/65-66 dated 20-3-1967 from the Director of Industries and Commerce, Bangalore.

PREAMBLE:-

In Government Order No.CI 4 GMP 66 dated 22-9-1966, Government have agreed in principle, as a special case, to participate to the extent of Rs.2 crores representing 12½% in the equity capital of the Joint Stock Company to be formed for the purpose of implementing the Mangalore Fertiliser Project, the investment being phased as follows:-

(i) Rs.20 lakhs during 1966-67
(ii) Rs.80 lakhs in 1967-68 and
(iii) Rs.100 lakhs in 1968-69.

The Director of Industries & Commerce has advised that the implementation of an independent water-supply scheme for the Fertiliser Project may be taken up as expeditiously as possible since the speedy implementation of this major project depends very much on the supply of water to this project.

The question of supply of water to the proposed Fertiliser Factory at Mangalore was discussed by the representatives of the Factory with the Secretary to Government, Public Works and Electricity Department, on 8-2-1967. During the discussions, Dr.G.S.Dugal Chairman, Malabar Chemicals & Fertilisers Ltd., mentioned that the proposed Fertiliser Factory at Mangalore was likely to go into production some time in 1970 and that it would require water to the extent of about 12 million gallons per day from that year. The scheme of supply of water to the proposed industry does not come within the purview of the town water supply schemes and therefore has to be treated as a separate scheme mainly meant for industrial purposes. A special provision will have to be made in the budget for 1967-68 for this scheme as has been done in the case of water supply scheme for the Aluminium Industry at Belgaum. Since water will have to be made available towards the middle of 1970, the construction will have to be phased in such a way as to enable the work to be completed by that time and the funds made available accordingly. The Engineers who took part in the discussions indicated that the expenditure could be phased in the following manner:-

| | |
|---|---|
| 1967-68 | Rs. 50 lakhs |
| 1968-69 | Rs. 70 lakhs |
| 1969-70 | Rs. 30 lakhs |

Since it would be extremely difficult for the industry to take up the work for execution, Dr.Dugal requested that the State Government should undertake this job and supply water to the factory

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PROCEEDINGS OF THE GOVERNMENT OF MYSORE.

(Public Works Department)

SUBJECT:- Tenders for providing water supply to Fertiliser Factory at Mangalore.

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R E A D:

1. G.O.No. CI.9 GMP 67 dated 24-7-1967.
2. Letter No. PHG.7-WSD(E) 67-68 dated 3-12-67 from the Chief Engineer(General), Bangalore.
3. Letter No. PHG. 7 WSD(E) 67-68, dated 6-12-1967, from the Chief Engineer (General), Bangalore.

P R E A M B L E.

Government of India having considered Mangalore as one of the few best sites in the country for location of a Fertiliser Factory have issued sanction in favour of M/s. Malabar Chemicals & Fertilisers Ltd., to establish the Fertiliser Factory at Mangalore, in the private sector. In pursuance of that Sri. Dugal - representative of the firm was informed that the facilities in regard to water supply and power to the proposed factory will be made available at negotiated rates. In order to supply water to this Fertiliser factory, Mangalore town, Port area and other Industries that are likely to come up - an estimate amounting to Rs. 153 lakhs for supply of 15 MGD. of water was administratively approved by Government in Order No. CI. 9 GMP dated 24-7-1967. After detailed examination of the requirement it was considered to have a scheme of 18 MGD. instead of 15 MGD as sanctioned by Government. Hence the Chief Engineer, it is learnt, has now prepared an estimate after conducting detailed surveys for Rs. 171 lakhs for supplying 18 MGD. The firm, Messers. Malabar Chemicals and Fertilisers had originally requested water supply by -- 1971-72 - subsequently the firm had requested 1.5 MGD. of water supply, by 4/1969 so as to start working of mobile

unit and also have indicated that they would require 12 MGD of water by 4/1972.

In order to consider the ways and means of executing this work speedily so as to supply water by 4/1969 a meeting was held in the Chambers of the Minister, Public Works Department, on 3-10-1967, when it was decided that a few competent and experienced firms be consulted as to whether it would be possible for them to undertake this job as turn-key-job or various components of the scheme individually an complete the same before the targetted date. This involved deviation from the normal procedure of calling of tenders laid down in the code. But in view of urgency of getting the work done the above course was agreed to. Accordingly a meeting of important firms was held in the Chambers of the Minister for Public works, on 16th October, 1967, when it was decided that tenders be invited from the reputed firms for the turn key job and also for the individual jobs based on the components of the scheme. A time schedule was prescribed according to which tender papers had to be issued by 24-10-67 and tenders to be received by 15-11-1967. Tender schedule drawn up by the Chief Engineer for the turn-key-job and also for the groups of work both for 9 MGD and 18 MGD as detailed below were issued to the contractors.

Group. 1: (a) Construction of 8 Meter dia. course rubble masonry intake well-cum-pump house.

(b) Construction of R.C.C. Circular ground level sump of 2.25 lakh gallons capacity.

(c) Construction of bridge across Gurpur river near Kollur-bridge.

Group. 2: Providing treatment plant at Thumbe.

Group. 3:

(a) Providing, laying and jointing pre-tressed concrete pipes - first length.

(Contd. P/...3)

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(i) first pumping well from intake well to clarifloc-culator.

(ii) second pumping main from clarifloccculator to Hill top.

iii) First reach of Gravity Main from Ch.0 to 7,500 meters or alternatively.

(b) Providing, laying and jointing C.I.Pipes as in (a) above place of pre-stressed concrete pipes, or alternatively.

(c) Providing, laying and jointing M.S.Pipes as in (a) above instead of pre-stressed concrete pipes.

GROUP-4: Providing, laying and jointing Pre-stressed concrete pipes.

(a) second reach from 7,500 to 17,250 meters chainage or alternatively.

Providing, laying and jointing using M.S.Pipes for the reach instead of pre-stressed concrete pipes as in (a) above

GROUP-5: Providing, laying and jointing pre-stressed pipes.

a) From reach from Ch.17,250 to Ch.26,010 meters or alternatively.

b) Providing, laying and jointing C.I.Pipes for the above reach instead of pre-stressed concrete pipes or alternatively.

c) Providing, laying and jointing M.S.pipes for the above reach instead of pre-stressed concrete pipes.

GROUP-6: a) Providing, supplying and erecting and commissioning deep well turbine pump sets (three in number) of capacity 7,000 G.P.M.

b) Providing, supplying erection and commissioning of Centrifugal Pump sets of capacity 6,800 G.P.M. (3 in number).

Nineteen firms obtained tender papers from the Chief Engineer (General) out of which thirteen firms have submitted their tenders. Three firms have tendered for the Turn Key Job and the remaining for various groups of the Scheme. The details of the firms which tendered are given below:-

(a) TURN KEY JOB:

The following three firms quoted for the Turn Key Job.

1) M/s. Engineering Construction Company, Madras.
2) Gannon Dunkerly Company, Madras.
3) M/s Uttamsingh Dugal Company Private Limited, Delhi.

Of the above, Shri Uttamsingh Dugal has quoted only for five groups out of six groups.

(Contd....

The following 10 firms have quoted for the groups of works detailed below:-

1) M/s. Indian Iron & Steel Company Limited:

Groups-III, IV and V (both for 9 M.G.D. and 18 M.G.D. for supply of C.I. Pipes only).

2) M/s. Jyothi Limited, Baroda (Group-VI only).

3) M/s. Kerala Premo Pipe Factory, Kerala, have quoted for supply of pre-stressed concrete pipes for 9 M.G.D. only in respect of Groups III and IV.

4) M/s. N.G.E.F. Bangalore for Group-VI only in respect of 18 M.G.D.

5) ~~M/s. xxxxx~~ Larson and Toubro Limited - for Group-VI only in respect of 18 M.G.D.

6) M/s. Nirmala Engineering Company (For Group-VI only in respect of both 9 and 18 M. G.D.)

7) Voltas Limited (for Group-VI only in respect of 18 M.G.D.)

8) M/s. Indian Hume Pipe Co., Bombay (For Groups-III, IV & V).

9) Hindustan Construction Co. Ltd., Bombay (For Groups-I & II).

10) M/s. Geo Miller Private Ltd., Calcutta - (Group-II only 9 M.G.D. and 18 M.G.D.)

In the estimate it was proposed to use pre-stressed concrete pipes. As the Manufacture of P.C.C. pipes is still in infant stage and involve highly skilled labour and high quality steel wire etc the proposal of using pre-stressed concrete pipes had to be dropped. Similarly, the proposal of using G.I. pipes in this scheme had to be dropped since the diameter of the pipe required for 18 M.G.D. was of 42" and that ~~diameter~~ dia. pipes are not readily and it would take considerable time for manufacture of 42" ~~diameter~~ dia. C.I. Pipes. It was therefore decided that M.S. Pipes has to be used on this work.

Regarding the financial aspect involved in executing the scheme, in two stages; (1) using 9 M.G.D. Pipe-line in the initial stages and duplicating it within the course of another two years; (2) alternatively executing the scheme in entirety with 18 M.G.D pipe line and providing for pumping and treatment arrangement for 9 M.G.D. only, it is found that if the 2nd alternative is adopted, the Government stands to gain to the extent of Rs.88 lakhs. Moreover, the rate of supply of water in the case of first alternative would be higher when compared to the second alternative.

(Contd.....

Since the ultimate water requirement will have to be met within a course of two years from the date of completion of the project it would be advantageous to go in for the 2nd alternative, Viz. laying the pipe line for 18 M.G.D. supply with 9 M.G.D. component of pumping and treatment arrangements.

The analysis of tenders made by the Chief Engineer on the basis is as detailed below:-

Turn Key Job:- 3 firms had quoted on this basis for the following three alternatives.

(a) 9 M.G.D. only.
(b) 18 M.G.D. only.
(c) 9 M.G.D. supply with 18" M.G.D. pipe line.

The rate quoted by M/s. E.C.C. is the lowest in all the three cases stated above. Taking into consideration the use of M.S.Pipes the cost for 9 M.G.D. is Rs.190.99 lakhs, for the 18" M.G.D. Rs.207.14 lakhs and for 9 M.G.D. supply with 18 M.G.D. pipe line Rs.234.45 lakhs. Since it is found that 9 M.G.D. supply with 18 M.G.D. pipeline with M.S.pipes is economical the tenders received for this job have been considered. The tender of M/s. E.C.C.for the Turn Key Job being Rs.234.45 lakhs as against the estimated cost of Rs.169.58 lakhs is considered to be very high and not advantageous to Government, the question of entrusting works on Group-wise basis based on the merits of tender received Group-wise was considered.

As indicated above, apart from the 3 firms who had quoted for the Turn Key Job (indicating groupwise cost details) 10 firms have quoted group-wise. The following are the lowest:-

| | | |
|---|---|---|
| GROUP-I. | Only one firm, i.e., M/s. H.C.C. have quoted. | Rs.24,75,000 |
| GROUP-II. | Only 2 firms have quoted the lowest being that of M/s. Geo Miller Company for | Rs. 8,69,000 |
| GROUP-III IV& V. | 3 firms have quoted of which 2 have quoted only for supply of pipes. Again only one has partly quoted for only 2 groups. The lowest for the 3 groups is that of M/s Indian Hume Pipe Company. | Rs.51,90,077 (Group-<br>Rs.48,91,573 (Grou<br>Rs.47,13,649 (Group |

cn/

(Contd....6)

Group:- Five firms have quoted of which two are incomplete. Two are not in accordance with the tender specification. Only one firm has fully complied with the departmental specification and the cost as per that quotation of the firm M/s.Nirmal Engineering Co., comes to Rs.12,24,066/-.

The total cost of the scheme as per the lowest tender received on Group-wise basis works out to Rs. 185.81 lakhs as against the estimated cost of Rs.169.58 lakhs which was on the higher side. Hence the possibility of entrusting the work to two or three firms by suitably combining the firms was further considered. Of the three firms who had quoted for Turn Key Job (M/s.Gammon Dunkerly have quoted lowest for Group-I (Rs.14,68,878/-) but their cost in respect of Group-2 to Group-6 being high and as they were not agreeable to execute only Group-1, their case for combination with other firms was not considered. M/s.Uttamsingh Dugal & Co., who had quoted for five groups only and their cost being higher they have also not been considered for combination with other firms. The other firm, M/s.Engineering Construction Co., who had quoted for Turn Key Job on negotiation is agreeable for combination with other firms provided they are given Group I,II, VI. In respect of Group III, IV, V the tender of Indian Hume Pipe Co., for 18 MGD. Pipe line with M.S.Pipes being the lowest the combination of M/s.E.C.C. and Indian Hume Pipe Co. was considered. The cost of Group I,II and VI, as quoted by E.C.C. works out to Rs.48 05,733/-. The cost of Groups III, IV and V as per tender of Indian Hume Pipe Co., is Rs.137,97,259/-. The total cost in the combination of E.C.C. with Indian Hume Co. would be Rs.17,800,992/- Thus the total cost as per this combination is lower than the total cost if the lowest of the Group-wise tenders were alone to be considered.

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The above two firms have stipulated certain conditions on negotiation M/s. Engineering Construction Co., Madras, have withdrawn all conditions except the following:-

i) Price Escalation clause due to cement

ii) Recovery of F.S.D. at 2½% by way of Bank Guarantee to be current upto 12 months beyond contractual period instead of 5% recovery from the running bills as per the Codal Rules.

iii) Cash advance along with the order at 10% value of the work entrusted to them against the Bank Guarantee which works to about. Rs.4 lakhs.

M/s. Indian Hume Pipe Co. on negotiation have stipulated the following conditions:-

(i) Payment of Rs.75,000/- to the firm in case the Department does not supply water free of cost for testing

(ii) Payment of Rs.15 lakhs cash advance along with the order free of interest and in case interest is charged at - they have to be paid an additional sum of Rs.1,05,000/- on this account.

(iii) Payment of 90% secured advance against the materials brought to site as against 75% secured advance as per Codal Rules and an additional sum of Rs.1,50,000/- in case the department would not agree to their stipulation that 90% secured advance should be paid on materials (M.S.plates) at Bombay.

(iv) Penalty clause with a maximum ceiling limit of 7½% of the total value of the work entrusted to them.

(v) Price Escalation in respect of M.S.Plates, M.S.Rods, cement and electrodes. The base price will be the price prevalent on the date of tender according to I.P.C.Price schedule Col.I or CACO Price Schedule, in case of cement.

According to the above conditions, the Tender amount of Indian Hume Pipe Co. for Groups-III, IV and V increases by Rs.3,30,000/-. The other minor conditions which the firm has not agreed to withdraw are reported to have not appreciable financial implications and it is also stated that it is not possible to evaluate these conditions at present.

The offer of M/s. Indian Hume Pipe Co. including this additional amount of Rs.3,30,000/- wa amounts to Rs.1,41,25,259/-.

On consideration of the above, the Chief Engineer has recommended for the acceptance of offer of M/s. Engineering Construction Co., Madras, for Group-I, II and VI amounting to Rs.40,05,733 and also offer of M/s. Indian Hume Pipe Co., for Group-III, IV and V as per the conditions stipulated above amounting to Rs.1,41,25,259/-.

The Chief Engineer has also requested for ratification to the action taken by him,

(1) in issuing the Tender papers only to selected firms who have got experience and technical know-how in respect of water supply scheme of bigger magnitude, in relaxation of the Codal Rules

(2) for having conducted negotiations with the firm who had quoted lowest for the Turn Key Job for making combination of Groups-III, IV & V in relaxation to rules of negotiations;

(3) for having received the tenders without obtaining E.M.D. from any of the firms in relaxation of Codal Rules, subject to the condition that the E.M.D. will be deposited by them before the works are entrusted to them.

ORDER NO.PWD 25 WMS 67 (B)
BANGALORE DATED 15th DECEMBER 1967.

On careful consideration of the Tenders along with the conditions as enumerated above, Government are pleased to accord approval to:-

(1) The lowest offer of M/s. Engineering Construction Co., Madras for Rs.40,05,733 (Rupees Forty lakhs Five thousand seven hundred and thirtythree) only for Groups-I, II and VI and the lowest tender of M/s. Indian Hume Pipe Co., (private Ltd.,) for Rs.1,41, 25,259/-(Rupees one crore, Fortyone lakhs, twentyfive thousand two hundred and fiftynine) only for Groups-III, VI and V with the following conditions:-

(A) M/s. Engineering Construction Co., Madras:-

(i) Payment of extra cost due to escalation in prices of Cement by the Department;

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(ii) Payment of cash advance of Rs.4 lakhs (Rupees four lakhs) against bank guarantee with interest at 8% to be recovered at the rate of 10 per cent of the advance together with the accrued interest in the monthly running bills. In any case the entire advance together with the accrued interest should be recovered before the end of March 1969.

(iii) Recovery of F.S.D. at 2½% instead of 5% as per Codal Rules in the form of Bank guarantee to be current beyond 12 months of the contractual period or the date of completion of work whichever is later.

(iv) Payment of 90 per cent secured advance against materials brought to site, as against 75 per cent as per para 228 of M.P.W. Accounts Code.

(B) M/s.Indian Hume Pipe Co.Ltd.,

(i) Payment of cash advance of Rs.15 lakhs (Rupees Fifteen lakhs) against Bank Guarantee with interest at 8% which should be recovered at the rate of 10 per cent of advance together with accrued interest in the monthly running bills. In any case the entire advance together with the accrued interest should be recovered before the end of March 1969.

(ii) Recovery of F.S.D. of 5 per cent by way of bank guarantee to be current for a period of 12 months beyond the contractual period or the date of completion whichever is later.

(iii) Payment of extra cost due to escalation in prices of.-

(a) Mild Steel plates
(b) Cement
(c) Electrodes
(d) M.S.Rods and Wire.

If there be reduction in prices they should pay rebate to that extent to the Department.

IV. Payment of 90% secured advance against materials brought to site as against 75% as per para 228 of M.P.W.A Code.

V. Payment of penalty by the contractor at the rates notified in the tender subject to a maximum of 7½ per cent of the total value of work entrusted to them;

(VI) Payment for compensation for the cost of idle labour during such period of suspension, such expenses being reduced to the minimum necessary by the firm if the suspension is due to the departmente as per clause 15(iii) of regular agreement fxxxx form P.W.G.65(a) and if such period is more than one month;

II. The following action taken by the Chief Engineer (General) is also ratified.

(1) issuing of tender papers only to the selected firms who have got experience and technical x know-how in respect of water supply scheme of bigger magnitude in relaxation of the codal rules.

(2) for having conducted negotiations with the lowest firm who had quoted for the Turn Key Job for making combinations of Groups-III, IV and V in relaxation to rules of negotiations

(3) for having received the tenders without obtaining E.M.D. from any of the firms in relaxation of Codal rules, subject to the condition that E.M.D. will be deposited by them before the works are entrusted to them.

This order xxxx is issued with the concurrence of the Finance Department vide their U.O.No.FD.7647/F.S. dated 15-12-67.

BY ORDER & IN THE NAME OF THE GOVERNOR OF MYSORE,

M Channappa 15/12/67

(M.Channappa)
Deputy Secretary to Govt.
P.W.D.(Irrigation).

To

1. The Chief Engineer(General),Bangalore, with the original tender papers.
2. The Accountant General,Mysore,Bangalore.
3. The Superintending Engineer,Public Health Engg.Circle, Bangalore.
4. The Executive Engineer,Public Health Engineering Dn. Mangalore.
5. P.A. to the Minister for Public Works Deptt.
6. P.A. to the Secretary, P.W.& E.Dept.
7. P.A. to the Secretary,C&I.Dept.Bangalore.
8. P.A. to the Secretary,Finance Dept.Bangalore.
9. Weekly Gazette. Stock File.
10. Copy to Finance Department. (BUDGET).

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PROCEEDINGS OF THE GOVT. OF MYSORE

SUB.- Water Supply Scheme to Mangalore Fertiliser Factory - construction of a bridge across Gurpur River.

REF:-

1) G.O.No.PWD 25GWS 67 (B) dated 15-12-67.
2) D.O.No.CD.BRG/GR/67-68 dated 23.2.68, from the C.E.(C&B).
3) Correspondence resting with letter No.PHG/8/WSD/67-68 dated 2-4-1968.

PREAMBLE.

Administrative sanction has been accorded in Government Order No.CI 9 GMP 67 dated 24.7.1967 to the estimate amounting to Rs.151.00 lakhs for providing water supply to the Fertilizer Factory at Mangalore. The tenders received have been approved in G.O.No.PWD 25 GWS 67 dated 15.12.1967. The Chief Engineer(G) states that there is a provision in the above scheme for construction of a bridge across Gurpur River about 100' down stream of the existing road bridge to carry the pipe line. The work of construction of the bridge has been entrusted to M/s.Engineering Construction Corporation, along with other works contained in Groups I, II and VI. According to the tenders of M/s.Engineering Construction Corporation, the cost of construction of the bridge is -- Rs.11,46,232/-.

2. The Chief Engineer (C&B) in his letter dated 21st February 1968, has proposed to convert the 17' wide bridge meant only to carry the pipe line as per the scheme into a regular road-cum-pipe bridge having a clear width of 24' for taking the road traffic along with provision to carry the water supply pipes. The Chief Engineer (C&B) has further stated that there has been heavy traffic on the existing bridge and further there is likelihood of its increase consequent on the development of Harbour and other industries round about Mangalore. To relieve the heavy congestion of traffic on the existing bridge, he has opined that it will give a lot of relief to the traffic if the proposed 17' wide bridge under the Water Supply Scheme is converted into a road-cum-pipe line bridge. Such a bridge would serve one-way traffic in conjunction with the existing bridge. He has further suggested that extra cost over and above the provision in the water supply scheme could be met by the amount provided under "103-Capital Outlay - Communication - Bridges" duly apportioning the cost.

3. Accordingly, M/s.Engineering Construction Corporation have on being consulted by Chief Engineer (General) furnished detailed designs for the road bridge with Class A A loading capacity according to I.R.C. specification. Pre-stressed concrete girders have been provided in place of ordinary reinforced cement ~~xxx~~ concrete girders with a view to obtain ing economy as a result of the reduced sections in view of pre-stressed concrete girders. The total estimated cost of the bridge according to modifications works out to Rs.26,00,000/- approximately, on the basis of the tender rates of the contractors for the items for which they had already quoted, and the derived rates for other items in accordance with the provisions of the agreement.

4. The Chief Engineer(General) has further stated that it is economical to convert the present 17' wide bridge intended to carry the pipe line into a regular road-cum-pipe bridge. The cost of the construction of a bridge for communication purposes only would be about Rs.21 lakhs now. The cost of the bridge for carrying the pipe line only will be Rs.11.46 lakhs. Hence, the total for the two separate bridges would be Rs.32.46 lakhs, whereas the construction of road-cum-pipe line bridge would cost only about Rs.26 lakhs. Further, if the construction of the road bridge is postponed, there is likelihood of the cost going up by about 20% in course of five years in which case the road bridge would cost Govt. Rs.25.21 lakhs approximately. Thus, by postponing the construction of the road bridge, Govt. would be required to spend about Rs.36.65 lakhs for the two individual bridges, (which would be inevitable) as against the cost of Rs.26 lakhs if the road-cum-pipe line bridge is taken up for execution now itself. This would result in a savings of about Rs.10.65 lakhs to Government.

5. Hence, the Chief Engineer(General) has requested Government to accord administrative approval to the proposal of the construction of road bridge at a cost of Rs.26 lakhs in place of the proposed 17' bridge to carry only pipe line under the Water Supply Scheme to the Fertilizer Factory and also the proposal of the Chief Engineer (C & B) to apportion the cost as suggested.

6. In this connection, it is reported further that M/s.Engineering Construction Corporation, Madras, have made arrangements to start the sinking of the wells at the proposed site of the 17' bridge as per the existing constract. In case the proposal of having a road bridge is approved, then it is necessary to make provision before starting sinking of wells for the formation of sand islands to accommodate two rows of wells. Further the entire bridge work has to be completed before April 1969 along with other works of the Water Supply Scheme as per terms of the agreement to facilitate supply of water.

7. To avoid delay in the completion of the bridge required for commissioning of the Water Supply Scheme before the targetted date the Chief Engineer (General) has permitted the contractors to go ahead with sinking of one row of wells which is common to both the foundations of the approved pipe line bridge and the proposed road-cum-pipe line bridge, keeping the dimensions of the sand island to accommodate the twin wells. So he has requested Govt. for approval of action taken by him in the interest of speedy execution of the work.

8. In the circumstances explained above, the Chief Engineer (General) requests orders of Govt. on the following:-

(i) to accord administrative approval to the revised proposal of constructing the road-cum-pipe line bridge costing Rs.26 lakhs instead of pipe-line bridge of Rs.11.43 lakhs;

(ii) to entrust this work of Rs.26 lakhs to the same contractor, i.e., M/s.Engineering construction Corporation, Madras, at their tendered rates;

(iii) to apportion the cost of Road-cum-pipe line bridge between the water supply scheme and communication scheme as follows:

| | | |
|---|---|---|
| (a) Water Supply Scheme | .. | Rs.11.43 lakhs |
| (b) Communications | .. | Rs.14.57 lakhs |
| Total | | Rs.26.00 lakhs |

and

(iv) to approve the action taken by the Chief Engineer (General) in having permitted M/s.Engineering Construction Corporation, Madras, contractors, to go ahead with sinking of one row of wells which is common to both the foundations of the approved pipe line ~~bridge~~ bridge and the proposed road-cum-pipe line bridge, keeping the dimensions of the sand island to accommodate the twin wells in the interest of speedy execution of the work.

ORDER NO.PWD 47 CWS 68

BANGALORE, DATED 23RD MAY 1968.

After careful consideration of the matter, Government are pleased:-

(i) to accord administrative approval to the revised proposal of constructing the road-cum-pipe line bridge costing Rs.26 lakhs instead of pipeline bridge of Rs.11,43 lakhs;

(ii) to entrust this work of Rs.26 lakhs to the same contractor, i.e. M/s.Engineering Construction Corporation, Madras, at their tendered rates;

(iii) to apportion the cost of Road-cum-pipe line Bridge between the water supply scheme and the communication scheme as follows:

| | | |
|---|---|---|
| (a) Water Supply Scheme | .. | Rs.11.43 lakhs |
| (b) Communications | .. | Rs.14,57 |
| Total | .. | Rs.26.00 |

and

(iv) to approve the action taken by the Chief Engineer (General) in having permitted M/s.Engineering Construction Corporation Madras, Contractors, to go ahead with the sinking of one row of wells which common to both the foundations of the

approved pipe line bridge and the proposed road-cum-pipe line bridge, keeping the dimensions of the sand island to accommodate the twin wells in the interest of speedy execution of the work."

This Order issues with the concurrence of the Finance Department vide their U.O.No.2578/DS(B) dated-18-4-1968.

By Order and in the name of the Governor of Mysore,

M Channappa 23/5/68

(M.Channappa)
Deputy Secretary to Government,
Public Works Deptt.(Irrigation).

To

1. The Chief Engineer(General),Bangalore.
2. The Chief Engineer (Commun. & Buildings).
3. The Accountant General,Mysore,Bangalore,(in duplicate)
4. Fin.Dept.(BUD.)
5. The Weekly Gazette with an Index Slip.
6. G.O.File.

/SECRET/ /1970/ /NO.PWD.141.GWS.69/

CABINET NOTE.

Subject:- C.417/70:-

Water Supply Scheme to Mangalore Town, Harbour, Port area, Fertiliser Factory and other industries - approval to the revised estimate amounting to Rs.265.76 lakhs.

1. In order to supply water to Mangalore town, Harbour Port area, Fertiliser Factory and other industries that are likely to come up, an estimate amounting to Rs.153 lakhs for supplying of 15 mgd., of water was administratively approved by Government in Order No.CI.9.GMP.67, dated 24th July, 1967.

2. After further detailed examination, it was considered necessary to have a water supply scheme of 18 mgd., instead of 15 mgd. The Chief Engineer (General) framed an estimate for Rs.171 lakhs for supply of 18 mgd., making use of 39" dia. prestressed concrete pipes from the head-works at Thumbe to the supply point at Panambur. As the manufacture of prestressed concrete pipes was still in the infant stage, and involved highly skilled labour and high quality steel wire, the proposal for using pre-stressed - concrete pipes had to be dropped. Similarly, the proposal for using cast iron pipes in this scheme had also to be dropped since pipes with the required diameter of 42" were not readily available. It was, therefore, decided that hume pipes be used on this scheme. Accordingly tenders were called for and the work entrusted. The work is in progress and nearing completion.

3. The Chief Engineer (General) has now forwarded a detailed estimate based on actual requirements. The estimate for the first stage is Rs.255 lakhs and that for the second stage is Rs.270 lakhs. The first stage is designed for a supply of 9 mgd. In the first stage all the components of the water supply scheme would be designed for 18 mgd. supply except the pumpsets and pretreatment plant. The cost of adding the required pre-treatment plant and additional pumpsets to step up the supply from 9 mgd. to 18 mgd. is Rs.15 lakhs.

4. The water supply line has to cross the Gurpur Stream. Therefore, the construction of a pipe bridge was proposed and provided in the tender. Subsequently, the design was changed to a pipe-cum-road bridge and the cost of the bridge portion alone amounted to Rs.26 lakhs. This proposal of change-over has been accepted by Government in Order No. PWD.47.GWS.68, dated 23rd May, 1968. The amount of Rs.26 lakhs has been apportioned between the water supply scheme and communications as Rs.11.43 lakhs and 14.57 lakhs respectively. This amount did not include the cost of rocker and roller bearing and the approach roads that are necessary on Mangalore and Udipi sides. The extra cost on this account would be of the order of Rs.5 lakhs.

Contd...2...(P.T.O.)

Adding this to the cost to be borne by the communication portion of the estimate, the total cost to be borne by the communication section would be Rs.19.57 lakhs.

5. Under the water supply scheme, 3 mgd., capacity treatment plant has to be provided at Mangalore for the water supply of Mangalore town. It is reported by the Chief Engineer (General), that Mangalore Municipality has deposited Rs.1 lakh initially for the above work and has agreed to deposit the balance amount as and when the work progresses. This work is under progress as a deposit contribution work. Therefore, the provision of Rs.4.24 lakhs made for the above work in the project estimate of Rs.270 lakhs, will have to be deleted. The total revised cost of the water supply scheme will be therefore, Rs.265.76 lakhs.

6. The increase in the estimated cost over and above the original estimated amount of Rs.153 lakhs is mainly due to the following reasons:-

(1) The original estimate envisaged supply of water to the extent of 15 million gallons per day, whereas the revised estimate provides for a supply of 18 million gallons per day. On account of this major change in the scope of the work there was an increase in the several components of the scheme which are responsible for the increased cost;

(2) The increase was due to use of M.S.Pipes during execution instead of pre-stressed concrete pipes which were originally contemplated;

(3) Increase due to tender rates;

(4) Inclusion of additional items of work which were not contemplated in the original estimate but were found necessary for commissioning of the project as the original estimate was based on a line estimate and rough assumptions.

A comparative statement showing the provision made for the several components of the estimates in the originally sanctioned estimate of Rs.153 lakhs and the revised estimate of Rs.265.76 lakhs showing reasons for excess and savings is enclosed.

7. In Government Order No.PWD.25.GWS.67 (Vol.III) dated 2nd March, 1968 the rate for supply of water under this scheme has been fixed at 60 paise per 1,000 gallons in the initial stage with a view to showing some incentive to the Fertiliser Industry to be set up. The water rate is expected to be reviewed after 5 years by which time the factory would have attained financial stability.

Contd.....3....

8. Finance Department agrees to the sanctioning of the revised estimate subject to the following remarks:-

(i) that for the period mentioned in Government Order No.PWD.25.GWS.67, dated 2nd March, 1968 the agreed rate of 0.60 paise per 1,000 gallons for supply of water to the Malabar Chemicals and Fertilisers may be continued;

(ii) as regards supply to the Mangalore Municipality as suggested by the Chief Engineer (General) the rates may be fixed after the project is completed in all respects; and

(iii) however, an interim agreement may be obtained from this local body that they would pay such rates as may be fixed by Government in order to avoid disputes at a future date.

9. Revised administrative approval is to be accorded to the estimate amounting to Rs.265.76 lakhs for the supply of 18 mgd., of water per day to the Mangalore Fertiliser Factory, Habour and other industries, the first stage of the scheme being limited to Rs.250.76 lakhs.

10. Approval of the Cabinet is requested -

For according administrative approval to the revised estimate amounting to Rs.265.76 lakhs for the supply of 18 mgd., of water per day to the Mangalore Fertiliser Factory, Harbour and other industries, the first stage of the scheme being limited to Rs.250.76 lakhs with the conditions stipulated in sub-paras (i), (ii) and (iii) of para 8.

S. Varadan 26/9

(S. VARADAN),
Secretary to Government,
Public Works and Electricity Department.

26/9/70

tsv/-

| 1. | 2. | 3. | 4. | | 5. | 6. | 7. |
|---|---|---|---|---|---|---|---|
| 4. | Constructing G.L.Reservoir of 7,50,000 gallons capacity. | 7,50,000 | 2.25 lakhs Gallons capacity S.R. | 2,34,000 | - | 5,16,900 | Savings due to less capacity of S.R.i.e., from 7.5 lakhs to 2.25 lakhs. |
| 5. | Prestressed concrete pipe of 36" dia. for gravity main for 96,960 ft. | 96,96,000 | a) Gravity main of 1000 mm & 900 mm. 1,36,00,000 M.S.Pipes.<br>b) R.C.Pillar supports along gravity main 10,30,000<br>c) Thrust Blocks 3,80,000<br>d) Cutting earth mounds 70,400 | 1,50,80,400 | 53,84,400 | - | Excess due to usage of M.S. Pipe and tender rates. |
| 6. | Construction of G.L.services reservoir of 2 MG capacity - 2 Nos. | 14,00,000 | - | | | 14,00,000 | Savings since deleted. |
| 7. | Land acquisition charges | 1,00,000 | | 1,03,500 | 3,500 | - | Extra cost due to actual requirement. |
| 8. | Temp.Establishment charges. | 2,00,000 | | 3,55,400 | 1,55,400 | - | -do- |
| 9. | T&P Charges at 3% | 4,01,880 | | - | - | 4,01,880 | Savings due to non-provision since it is a Government Scheme. |

Contd...3....

| 1. | 2. | 3. | | 4. | 5. | 6. | 7. |
|---|---|---|---|---|---|---|---|
| 20. | Approach road from pre-treatment unit to RCC Reservoir at Hillock. | - | | 49,000 | 49,000 | - | estimate. But are to be found to be essential for commissioning the projects as the original estimate was based on line estimate and rough assumptions. |
| 21. | High lift pumping main from treatment unit to reservoir at Hillock | - | M.S.Steel pipe | 2,31,000 | 2,31,000 | - | |
| 22. | a)3 MGD filter plants | - | | 3,47,000 | 3,47,000 | - | These items are deleted since the same are taken under "Deposit Contribution Work". |
| | b)Quarters at filter house | - | | 77,000 | 77,000 | - | |
| | | | | 28,00,000 | 28,00,000 | | |
| 23. | a)RCC pipe cum road Bridge | - | | 3,01,000 | 3,01,000 | | |
| | b)Approach road on Mangalore site | - | | 1,98,000 | 1,98,000 | | |
| | c)Approach road on Udipi side | - | | 20,300 | 20,300 | | |
| 24. | Trial boxes of 7.62 CM dia. | - | | 5,10,000 | 5,10,000 | | |
| 25. | a)Construction of 6 MGD treatment plant | - | | 95,000 | 95,000 | | |
| | b)Administrative Building | - | | 1, 02,500 | 1,02, 500 | | |
| 26. | Pump-house and pump-set at Panambur | - | | | | | |

Contd....5....

ENCLOSURE TO C.417/70.

| 1. 2. | 3. | 4. | 5. | 6. | 7. |
|---|---|---|---|---|---|
| 10. Escalation charges at 10% | 13,39,600 | | | 13,99,600 | Savings due to non-provision of the item since the items worked out as per actuals. |
| 11. Miscellaneous and unforeseen charges. | 52,520 | 87,700 | 25,180 | - | All these additional items of works had not been contemplated in the original estimate; but are to be found necessary and essential for commissioning of projects. |
| 12. Providing 9 MGD pre-treatment plants. | - | 9,90,000 | 9,90,000 | - | |
| 13. Providing telephone connections. | - | 15,000 | 15,000 | - | |
| 14. Providing and fixing Hydrants. | - | 6,000 | 6,000 | - | |
| 15. Flood lighting and street lights. | - | 20,000 | 20,000 | - | |
| 16. Sludge disposal arrangements | - | 10,000 | 10,000 | - | |
| 17. Formation of approach road to quarters and low lift pumps. | - | 10,000 | 10,000 | - | |
| 18. Approach road Mercara-Mangalore road from low lift pumps. | - | 47,000 | 47,000 | - | All these additional items of works had not been contemplated in the original |
| 19. Approach road to pre-treatment unit | - | 15,600 | 15,600 | - | |

Contd.....4.....

/SECRET/ /1970/ /NO.PWD.141.GWS.69/

CABINET NOTE.

Subject:- C.417/70

Water Supply Scheme to Mangalore Town, Harbour, Port area, Fertiliser Factory and other industries - approval to the revised estimate amounting to Rs.265.76 lakhs.

1. In order to supply water to Mangalore town, Harbour Port area, Fertiliser Factory and other industries that are likely to come up, an estimate amounting to Rs.153 lakhs for supplying of 15 mgd., of water was administratively approved by Government in Order No.CI.9.GMP.67, dated 24th July, 1967.

2. After further detailed examination, it was considered necessary to have a water supply scheme of 18 mgd., instead of 15 mgd. The Chief Engineer (General) framed an estimate for Rs.171 lakhs for supply of 18 mgd., making use of 39" dia. prestressed concrete pipes from the head-works at Thumbe to the supply point at Panambur. As the manufacture of prestressed concrete pipes was still in the infant stage, and involved highly skilled labour and high quality steel wire, the proposal for using pre-stressed - concrete pipes had to be dropped. Similarly, the proposal for using cast iron pipes in this scheme had also to be dropped since pipes with the required diameter of 42" were not readily available. It was, therefore, decided that hume pipes be used on this scheme. Accordingly tenders were called for and the work entrusted. The work is in progress and nearing completion.

3. The Chief Engineer (General) has now forwarded a detailed estimate based on actual requirements. The estimate for the first stage is Rs.255 lakhs and that for the second stage is Rs.270 lakhs. The first stage is designed for a supply of 9 mgd. In the first stage all the components of the water supply scheme would be designed for 18 mgd. supply except the pumpsets and pretreatment plant. The cost of adding the required pre-treatment plant and additional pumpsets to step up the supply from 9 mgd. to 18 mgd. is Rs.15 lakhs.

4. The water supply line has to cross the Gurpur Stream. Therefore, the construction of a pipe bridge was proposed and provided in the tender. Subsequently, the design was changed to a pipe-cum-road bridge and the cost of the bridge portion alone amounted to Rs.26 lakhs. This proposal of change-over has been accepted by Government in Order No. PWD.47.GWS.68, dated 23rd May, 1968. The amount of Rs.25 lakhs has been apportioned between the water supply scheme and communications as Rs.11.43 lakhs and 14.57 lakhs respectively. This amount did not include the cost of rocker and roller bearing and the approach roads that are necessary on Mangalore and Udipi sides. The extra cost on this account would be of the order of Rs.5 lakhs.

Contd...2...(P.T.O.)

Adding this to the cost to be borne by the communication portion of the estimate, the total cost to be borne by the communication section would be Rs.19.57 lakhs.

5. Under the water supply scheme, 3 mgd., capacity treatment plant has to be provided at Mangalore for the water supply of Mangalore town. It is reported by the Chief Engineer (General), that Mangalore Municipality has deposited Rs.1 lakh initially for the above work and has agreed to deposit the balance amount as and when the work progresses. This work is under progress as a deposit contribution work. Therefore, the provision of Rs.4.24 lakhs made for the above work in the project estimate of Rs.270 lakhs, will have to be deleted. The total revised cost of the water supply scheme will be therefore. Rs.265.76 lakhs.

6. The increase in the estimated cost over and above the original estimated amount of Rs.153 lakhs is mainly due to the following reasons:-

(1) The original estimate envisaged supply of water to the extent of 15 million gallons per day, whereas the revised estimate - provides for a supply of 18 million gallons per day. On account of this major change in the scope of the work there was an increase in the several components of the scheme which are responsible for the increased cost;

(2) The increase was due to use of M.S.Pipes during execution instead of pre-stressed concrete pipes which were originally - contemplated:

(3) Increase due to tender rates;

(4) Inclusion of additional items of work which were not contemplated in the original - estimate but were found necessary for commissioning of the project as the original estimate was based on a line estimate and rough assumptions.

A comparative statement showing the provision made for the several components of the estimates in the originally sanctioned estimate of Rs.153 lakhs and the revised estimate of Rs.265.76 lakhs showing reasons for excess and savings is enclosed.

7. In Government Order No.PWD.25.GWS.67 (Vol.III) dated 2nd March, 1968 the rate for supply of water under this scheme has been fixed at 60 paise per 1,000 gallons in the initial stage with a view to showing some incentive to the Fertiliser Industry to be set up. The water rate is expected to be reviewed after 5 years by which time the factory would have attained financial stability.

Contd.....3....

8. Finance Department agrees to the sanctioning of the revised estimate subject to the following remarks:-

(i) that for the period mentioned in Government Order No.PWD.25.GWS.67, dated 2nd March, 1968 the agreed rate of 0.60 paise per 1,000 gallons for supply of water to the Malabar Chemicals and Fertilisers may be continued;

(ii) as regards supply to the Mangalore Municipality as suggested by the Chief Engineer (General) the rates may be fixed after the project is completed in all respects: and

(iii) however, an interim agreement may be obtained from this local body that they would pay such rates as may be fixed by Government in order to avoid disputes at a future date.

9. Revised administrative approval is to be accorded to the estimate amounting to Rs.265.76 lakhs for the supply of 18 mgd., of water per day to the Mangalore Fertiliser Factory, Habour and other industries, the first stage of the scheme being limited to Rs.250.76 lakhs.

10. Approval of the Cabinet is requested -.

For according administrative approval to the revised estimate amounting to Rs.265.76 lakhs for the supply of 18 mgd., of water per day to the Mangalore Fertiliser Factory, Harbour and other industries, the first stage of the scheme being limited to Rs.250.76 lakhs with the conditions stipulated in sub-paras (i), (ii) and (iii) of para 8.

S. Varadan 26/9

(S. VARADAN),
Secretary to Government,
Public Works and Electricity Department.

26/9/70

tsv/-

/SECRET/ /1970/ /NO.PWD.141.GWS.69/

CABINET NOTE.

Subject:- C.417/70:

Water Supply Scheme to Mangalore Town, Harbour, Port area, Fertiliser Factory and other industries - approval to the revised estimate amounting to Rs.265.76 lakhs.

1. In order to supply water to Mangalore town, Harbour Port area, Fertiliser Factory and other industries that are likely to come up, an estimate amounting to Rs.153 lakhs for supplying of 15 mgd., of water was administratively approved by Government in Order No.CI.9.GMP.67, dated 24th July, 1967.

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3. The Chief Engineer (General) has now forwarded a detailed estimate based on actual requirements. The estimate for the first stage is Rs.255 lakhs and that for the second stage is Rs.270 lakhs. The first stage is designed for a supply of 9 mgd. In the first stage all the components of the water supply scheme would be designed for 18 mgd. supply except the pumpsets and pretreatment plant. The cost of adding the required pre-treatment plant and additional pumpsets to step up the supply from 9 mgd. to 18 mgd. is Rs.15 lakhs.

4. The water supply line has to cross the Gurpur Stream. Therefore, the construction of a pipe bridge was proposed and provided in the tender. Subsequently, the design was changed to a pipe-cum-road bridge and the cost of the bridge portion alone amounted to Rs.26 lakhs. This proposal of change-over has been accepted by Government in Order No. PWD.47.GWS.68, dated 23rd May, 1968. The amount of Rs.25 lakhs has been apportioned between the water supply scheme and communications as Rs.11.43 lakhs and 14.57 lakhs respectively. This amount did not include the cost of rocker and roller bearing and the approach roads that are necessary on Mangalore and Udipi sides. The extra cost on this account would be of the order of Rs.5 lakhs.

Contd...2...(P.T.O.)

Adding this to the cost to be borne by the communication portion of the estimate, the total cost to be borne by the communication section would be Rs.19.57 lakhs.

5. Under the water supply scheme, 3 mgd., capacity treatment-plant has to be provided at Mangalore for the water supply of Mangalore town. It is reported by the Chief Engineer (General), that Mangalore Municipality has deposited Rs.1 lakh initially for the above work and has agreed to deposit the balance amount as and when the work progresses. This work is under progress as a deposit contribution work. Therefore, the provision of Rs.4.24 lakhs made for the above work in the project estimate of Rs.270 lakhs, will have to be deleted. The total revised cost of the water supply scheme will be, therefore, Rs.265.76 lakhs.

6. The increase in the estimated cost over and above the original estimated amount of Rs.153 lakhs is mainly due to the following reasons:-

(1) The original estimate envisaged supply of water to the extent of 15 million gallons per day, whereas the revised estimate - provides for a supply of 18 million gallons per day. On account of this major change in the scope of the work there was an increase in the several components of the scheme which are responsible for the increased cost;

(2) The increase was due to use of M.S.Pipes during execution instead of pre-stressed concrete pipes which were originally - contemplated;

(3) Increase due to tender rates;

(4) Inclusion of additional items of work which were not contemplated in the original - estimate but were found necessary for commissioning of the project as the original estimate was based on a line estimate and rough assumptions.

A comparative statement showing the provision made for the several components of the estimates in the originally sanctioned estimate of Rs.153 lakhs and the revised estimate of Rs.265.76 lakhs showing reasons for excess and savings is enclosed.

7. In Government Order No.PWD.25:GWS.67 (Vol.III) dated 2nd March, 1968 the rate for supply of water under this scheme has been fixed at 60 paise per 1,000 gallons in the initial stage with a view to showing some incentive to the Fertiliser Industry to be set up. The water rate is expected to be reviewed after 5 years by which time the factory would have attained financial stability.

Contd.....3....

ENCLOSURE TO C.417/70.

Comparative statement of the sanctioned estimate for Rs.153 lakhs and the revised estimate for Rs.265.76 lakhs.

(FERTILISER FACTORY WATER SUPPLY SCHEME AT MANGALORE)

...

| Sl. No. | Items. | Cost as per sanctioned line estimate. (15 MGD Scheme) (Rs.153 lakhs) | Costs as per revised estimate (18 MGD Scheme) (Rs.265.76 lakhs) | | Excess | Savings | Remarks and reasons. |
|---|---|---|---|---|---|---|---|
| 1. | 2. | 3. | 4. | | 5. | 6. | 7. |
| 1. | Construction of two suction well-cum-pump (including revetments). | 1,25,000 | Infiltration well | 25,000 | 6,18,000 | 4,93,000 | - | Excess due to tender rate and increase in scope of work as per actual requirement during execution. The original provision was approximate and LS (lump-sum). |
| | | | M.S.Strainer | 2,000 | | | | |
| | | | Intake well-cum-pumphouse | 4,90,000 | | | | |
| | | | Switch gear Room | 93,000 | | | | |
| | | | R.C.Enclosure to valve chamber | 8,000 | | | | |
| 2. | Supplying and Erecting 5 sets of verticle Turbine pump set with accessories (each of 250 HP) | 6,25,000 | Two sets of 350 H.P.Low lift & two sets of 650 High lift pumps | | 12,55,000 | 6,30,000 | - | -do- |
| 3. | Prestressed concrete pipe of 36" dia.for low lift pumping main for 6000 ft. | 6,00,000 | 1000 mm M.S.Low lift pumping main. | | 6,00,000 | - | - | -do- |

Contd....2....

Enclosure to C.417/70.

| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|---|---|---|---|---|---|---|
| 4. | Constructing G.L.Reservoir of 7,50,000 gallons capacity. | 7,50,000 | 2.25 lakhs Gallons capacity S.R. | 2,34,000 | - | 5,16,000 Savings due to less capacity of S.R.i.e., from 7.5 lakhs to 2.25 lakhs. |
| 5. | Prestressed concrete pipe of 36" dia. for gravity main for 96,960 ft. | 96,96,000 | a) Gravity main of 1000 mm & 900 mm. 1,36,00,000 M.S.Pipes.<br>b) R.C.Pillar supports along gravity main 10,30,000<br>c) Thrust Blocks 3,80,000<br>d) Cutting earth mounds 70,400 | 1,50,80,400 | 3,84,400 | - Excess due to usage of M.S. Pipe and tender rates. |
| 6. | Construction of G.L.services reservoir of 2 MG capacity - 2 Nos. | 14,00,000 | - | - | | 14,00,000 Savings since deleted. |
| 7. | Land acquisition charges | 1,00,000 | | 1,03,500 | 3,500 | - Extra cost due to actual requirement. |
| 8. | Temp.Establishment charges. | 2,00,000 | | 3,55,400 | 1,55,400 | - -do- |
| 9. | T&P Charges at 3% | 4,01,880 | | - | - | 4,01,880 Savings due to non-provision since it is a Government Scheme. |

Contd...3...

ENCLOSURE TO C.417/70.

| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|---|---|---|---|---|---|---|
| 10. | Escalation charges at 10% | 13,39,600 | | | 13,99,600 | Savings due to non-provision of the item since the items worked out as per actuals. |
| 11. | Miscellaneous and unforeseen charges. | 52,520 | 87,700 | 25,180 | - | All these additional items of works had not been contemplated in the original estimate; but are to be found necessary and essential for commissioning of projects. |
| 12. | Providing 9 MGD pre-treatment plants. | - | 9,90,000 | 9,90,000 | - | |
| 13. | Providing telephone connections. | - | 15,000 | 15,000 | - | |
| 14. | Providing and fixing Hydrants. | - | 6,000 | 6,000 | - | |
| 15. | Flood lighting and street lights. | - | 20,000 | 20,000 | - | |
| 16. | Sludge disposal arrangements | - | 10,000 | 10,000 | - | |
| 17. | Formation of approach road to quarters and low lift pumps. | - | 10,000 | 10,000 | - | |
| 18. | Approach road Mercara-Mangalore road from low lift pumps. | - | 47,000 | 47,000 | - | All these additional items of works had not been contemplated in the original |
| 19. | Approach road to pre-treatment unit | - | 15,600 | 15,600 | - | |

Cont'd.....

| 1. | 2. | 3. | | 4. | 5. | 6. | 7. |
|---|---|---|---|---|---|---|---|
| | | | | 49,000 | 49,000 | - | estimate. But are to be found to be essential for commissioning the projects as the original estimate was based on line estimate and rough assumptions. |
| 20. | Approach road from pre-treatment unit to RCC Reservoir at Hillock. | - | M.S.Steel pipe | 2,31,000 | 2,31,000 | - | |
| 21. | High lift pumping main from treatment unit to reservoir at Hillock | - | | 3,47,000 | 3,47,000 | - | These items are deleted since the same are taken under "Deposit Contribution Works". |
| 22. | a)3 MGD filter plants | .. | | | | - | |
| | b)Quarters at filter house | .. | | 77,000 | 77,000 | | |
| | | -- | | 28,00,000 | 28,00,000 | | |
| 23. | a)RCC pipe cum road Bridge | - | | 3,01,000 | 3,01,000 | | |
| | b)Approach road on Mangalore site | - | | 1,98,000 | 1,98,000 | | |
| | c)Approach road on Udipi side | - | | 20,300 | 20,300 | | |
| 24. | Trial boxes of 7.62 CM dia. | - | | 5,10,000 | 5,10,000 | | |
| 25. | a)Construction of 6 MGD treatment plant | - | | 95,000 | 95,000 | | |
| | b)Administrative Building | - | | 1, 02,500 | 1,02, 500 | | |
| 26. | Pump-house and pump-set at Panambur | - | | | | | |

Contd....5....

ENCLOSURE TO C.417/70.

| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|---|---|---|---|---|---|---|
| 27. | 1 lakh gallon RCC over head tank for back wash | - | 1,00,000 | 1,00,000 | - | - |
| 28. | 1 lakh G.L.Reservoir to feed low level areas | - | 57,000 | 57,000 | - | - |
| 29. | Formation of approach road to filter unit at Panambur | - | 70,000 | 70,000 | - | - |
| 30. | Staff quarters | - | 4,79,600 | 4,79,600 | - | - |
| 31. | Telephone connection for maintenance of pipe line | - | 60,000 | 60,000 | - | - |
| 32. | Store shed | - | 20,000 | 20,000 | - | - |
| 33. | Contingencies at 1½% | - | 4, 60,000 | 4,60,000 | - | - |
| 34. | 50 K.V.A. transformer | - | 30,000 | 30,000 | - | - |
| 35. | Delivery manifold at high lift pumping station | - | 20,000 | 20,000 | - | - |
| 36. | Maintenance during construction | - | 25,000 | 25,000. | - | - |
| | II STATE. | | | | | |
| 37. | Pre-treatment at Thumbe | - | 8,72,500 | 8,72,500 | - | - |
| 38. | Low lift and High lift pumps | - | 5,27,500 | 6,27,500 | - | - |
| | Total:- | 1,53,00,000 | 2,65,76,000 | 149,53,480 | 36,57,480. | |

tsv/-

8. Finance Department agrees to the sanctioning of the revised estimate subject to the following remarks:-

(i) that for the period mentioned in Government Order No.PWD.25.GWS.67, dated 2nd March, 1968 the agreed rate of 0.60 paise per 1,000 gallons for supply of water to the Malabar Chemicals and Fertilisers may be continued;

(ii) as regards supply to the Mangalore Municipality as suggested by the Chief Engineer (General) the rates may be fixed after the project is completed in all respects; and

(iii) however, an interim agreement may be obtained from this local body that they would pay such rates as may be fixed by Government in order to avoid disputes at a future date.

9. Revised administrative approval is to be accorded to the estimate amounting to Rs.265.76 lakhs for the supply of 18 mgd., of water per day to the Mangalore Fertiliser Factory, Habour and other industries, the first stage of the scheme being limited to Rs.250.76 lakhs.

10. Approval of the Cabinet is requested -

For according administrative approval to the revised estimate amounting to Rs.265.76 lakhs for the supply of 18 mgd., of water per day to the Mangalore Fertiliser Factory, Harbour and other industries, the first stage of the scheme being limited to Rs.250.76 lakhs with the conditions stipulated in sub-paras (i), (ii) and (iii) of para 8.

S. Varadan 26/9

(S. VARADAN),
Secretary to Government,
Public Works and Electricity Department.

26/9/70

tsv/-

ENCLOSURE TO C.417/70.

Comparative statement of the sanctioned estimate for Rs.153 lakhs and the revised estimate for Rs.265.76 lakhs.

(FERTILISER FACTORY WATER SUPPLY SCHEME AT [redacted]NGALORE)

...

| Sl. No. | Items. | Cost as per sanctioned line estimate. (15 MGD Scheme) (Rs.153 lakhs) | Cost as per revised estimate (18 MGD Scheme) (Rs.265.76 lakhs) | | Excess | Savings | Remarks and reasons. |
|---|---|---|---|---|---|---|---|
| 1. | 2. | 3. | 4. | | 5. | 6. | 7. |
| 1. | Construction of two suction well-cum-pump (including revetments). | 1,25,000 | Infiltration well | 25,000 | 6,18,000 | 1,93,000 | - | Excess due to tender rate and increase in scope of work as per actual requirement during execution. The original provision was approximate and LS (lump-sum). |
| | | | M.S.Strainer | 2,000 | | | | |
| | | | Intake well-cum-pumphouse | 4,90,000 | | | | |
| | | | Switch gear Room | 93,000 | | | | |
| | | | R.C.Enclosure to valve chamber | 8,000 | | | | |
| 2. | Supplying and Erecting 5 sets of verticle Turbine pump set with accessories (each of 250 HP) | 6,25,000 | Two sets of 350 H.P.Low lift & two sets of 650 High lift pumps | | 12,55,[redacted] | 5,30,000 | - | -do- |
| 3. | Prestressed concrete pipe of 36" dia.for low lift pumping main for 6000 ft. | 6,00,000 | 1000 mm M.S.Low lift pumping main. | | 6,00[redacted] | - | - | -do- |

Contd...2....

| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|---|---|---|---|---|---|---|
| 4. | Constructing G.L.Reservoir of 7,50,000 gallons capacity. | 7,50,000 | 2.25 lakhs Gallons capacity S.R. | 2,34,000 | - | 5,16,000 Savings due to less capacity of S.R.i.e., from 7.5 lakhs to 2.25 lakhs. |
| 5. | Prestressed concrete pipe of 36" dia. for gravity main for 96,960 ft. | 96,96,000 | a) Gravity main of 1000 mm & 900 mm. M.S.Pipes. 1,36,00,000<br>b) R.C.Pillar supports along gravity main 10,30,000<br>c) Thrust Blocks 3,80,000<br>d) Cutting earth mounds 70,400 | 1,50,80,400 | 53,84,400 | - Excess due to usage of M.S. Pipe and tender rates. |
| 6. | Construction of G.L.services reservoir of 2 MG capacity - 2 Nos. | 14,00,000 | - | - | 14,00,000 | Savings since deleted. |
| 7. | Land acquisition charges | 1,00,000 | | 1,03,500 | 3,500 | - Extra cost due to actual requirement. |
| 8. | Temp.Establishment charges. | 2,00,000 | | 3,55,400 | 1,55,400 | - -do- |
| 9. | T&P Charges at 3% | 4,01,880 | | | - | 4,01,880 Savings due to non-provision since it is a Government Scheme. |

Contd...3....

ENCLOSURE TO C.417/70.

| 1. 2. | 3. | 4. | 5. | 6. | 7. |
|---|---|---|---|---|---|
| | | | | 13,99,600 | |
| 10. Escalation charges at 10% | 13,39,600 | | | | Savings due to non-provision of the item since the items worked out as per actuals. |
| 11. Miscellaneous and unforeseen charges. | 52,520 | 87,700 | 25,180 | – | All these additional items of works had not been contemplated in the original estimate; but are to be found necessary and essential for commissioning of projects. |
| 12. Providing 9 MGD pre-treatment plants. | – | 9,90,000 | 9,90,000 | – | |
| 13. Providing telephone connections. | – | 15,000 | 15,000 | – | |
| 14. Providing and fixing Hydrants. | – | 6,000 | 6,000 | – | |
| 15. Flood lighting and street lights. | – | 20,000 | 20,000 | – | |
| 16. Sludge disposal arrangements | – | 10,000 | 10,000 | – | |
| 17. Formation of approach road to quarters and low lift pumps. | – | 10,000 | 10,000 | – | |
| 18. Approach road Mercara-Mangalore road from low lift pumps. | – | 47,000 | 47,000 | – | All these additional items of works had not been contemplated in the original |
| 19. Approach road to pre-treatment unit | – | 15,600 | 15,600 | – | |

Contd.....5.....

ENCLO[illegible] to G.O.4777/78.

| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|---|---|---|---|---|---|---|
| 20. | Approach road from pre-treatment unit to RCC Reservoir at Hillock. | - | 49,000 | 49,000 | - | estimate. But are to be found to be essential for commissioning the projects as the original estimate was based on line estimate and rough assumptions. |
| 21. | High lift pumping main from treatment unit to reservoir at Hillock | - | M.S.Steel pipe 2,31,000 | 2,31,000 | - | |
| 22. | a)3 MGD filter plants | - | 3,47,000 | 3,47,000 | - | These items are deleted since the same are taken under "Deposit Contribution Work". |
| | b)Quarters at filter house | -- | 77,000 | 77,000 | - | |
| | | | 28,00,000 | 28,00,000 | | |
| 23. | a)RCC pipe cum road Bridge | - | 3,01,000 | 3,01,000 | | |
| | b)Approach road on Mangalore site | - | 1,98,000 | 1,98,000 | | |
| | c)Approach road on Udipi side | - | 20,300 | 20,300 | | |
| 24. | Trial boxes of 7.62 CM dia. | - | 5,10,000 | 5,10,000 | | |
| 25. | a)Construction of 6 MGD treatment plant | - | 95,000 | 95,000 | | |
| | b)Administrative Building | - | 1, 02,500 | 1,02, 500 | | |
| 26. | Pump-house and pump-set at Panambur | - | | | | |

Contd....5....

/SECRET/ /1970/ /NO.PWD.141.GWS.69

CABINET NOTE.

Subject:- C.417/70:

Water Supply Scheme to Mangalore Town, Harbour, Port area, Fertiliser Factory and other industries - approval to the revised estimate amounting to Rs.265.76 lakhs.

1. In order to supply water to Mangalore town, Harbour Port area, Fertiliser Factory and other industries that are likely to come up, an estimate amounting to Rs.153 lakhs for supplying of 15 mgd., of water was administratively approved by Government in Order No.CI.9.GMP.67, dated 24th July, 1967.

2. After further detailed examination, it was considered necessary to have a water supply scheme of 18 mgd., instead of 15 mgd. The Chief Engineer (General) framed an estimate for Rs.171 lakhs for supply of 18 mgd., making use of 39" dia. prestressed concrete pipes from the head-works at Thumbe to the supply point at Panambur. As the manufacture of prestressed concrete pipes was still in the infant stage, and involved highly skilled labour and high quality steel wire, the proposal for using pre-stressed - concrete pipes had to be dropped. Similarly, the proposal for using cast iron pipes in this scheme had also to be dropped since pipes with the required diameter of 42" were not readily available. It was, therefore, decided that hume pipes be used on this scheme. Accordingly tenders were called for and the work entrusted. The work is in progress and nearing completion.

3. The Chief Engineer (General) has now forwarded a detailed estimate based on actual requirements. The estimate for the first stage is Rs.255 lakhs and that for the second stage is Rs.270 lakhs. The first stage is designed for a supply of 9 mgd. In the first stage all the components of the water supply scheme would be designed for 18 mgd. supply except the pumpsets and pretreatment plant. The cost of adding the required pre-treatment plant and additional pumpsets to step up the supply from 9 mgd. to 18 mgd. is Rs.15 lakhs.

4. The water supply line has to cross the Gurpur Stream. Therefore, the construction of a pipe bridge was proposed and provided in the tender. Subsequently, the design was changed to a pipe-cum-road bridge and the cost of the bridge portion alone amounted to Rs.26 lakhs. This proposal of change-over has been accepted by Government in Order No. PWD.47.GWS.68, dated 23rd May, 1968. The amount of Rs.26 lakhs has been apportioned between the water supply scheme and communications as Rs.11.43 lakhs and 14.57 lakhs respectively. This amount did not include the cost of rocker and roller bearing and the approach roads that are necessary on Mangalore and Udipi sides. The extra cost on this account would be of the order of Rs.5 lakhs.

Contd...2...(P.T.O.)

Adding this to the cost to be borne by the communication portion of the estimate, the total cost to be borne by the communication section would be Rs.19.57 lakhs.

5. Under the water supply scheme, 3 mgd., capacity treatment plant has to be provided at Mangalore for the water supply of Mangalore town. It is reported by the Chief Engineer (General), that Mangalore Municipality has deposited Rs.1 lakh initially for the above work and has agreed to deposit the balance amount as and when the work progresses. This work is under progress as a deposit contribution work. Therefore, the provision of Rs.4.24 lakhs made for the above work in the project estimate of Rs.270 lakhs, will have to be deleted. The total revised cost of the water supply scheme will be, therefore, Rs.265.76 lakhs.

6. The increase in the estimated cost over and above the original estimated amount of Rs.153 lakhs is mainly due to the following reasons:-

(1) The original estimate envisaged supply of water to the extent of 15 million gallons per day, whereas the revised estimate - provides for a supply of 18 million gallons per day. On account of this major change in the scope of the work there was an increase in the several components of the scheme which are responsible for the increased cost;

(2) The increase was due to use of M.S.Pipes during execution instead of pre-stressed concrete pipes which were originally - contemplated;

(3) Increase due to tender rates;

(4) Inclusion of additional items of work which were not contemplated in the original - estimate but were found necessary for commissioning of the project as the original estimate was based on a line estimate and rough assumptions.

A comparative statement showing the provision made for the several components of the estimates in the originally sanctioned estimate of Rs.153 lakhs and the revised estimate of Rs.265.76 lakhs showing reasons for excess and savings is enclosed.

7. In Government Order No.PWD.25.GWS.67 (Vol.III) dated 2nd March, 1968 the rate for supply of water under this scheme has been fixed at 60 paise per 1,000 gallons in the initial stage with a view to showing some incentive to the Fertiliser Industry to be set up. The water rate is expected to be reviewed after 5 years by which time the factory would have attained financial stability.

Contd.....3....

8. Finance Department agrees to the sanctioning of the revised estimate subject to the following remarks:-

(i) that for the period mentioned in Government Order No.PWD.25:GWS.67, dated 2nd March, 1968 the agreed rate of 0.60 paise per 1,000 gallons for supply of water to the Malabar Chemicals and Fertilisers may be continued;

(ii) as regards supply to the Mangalore Municipality as suggested by the Chief Engineer (General) the rates may be fixed after the project is completed in all respects; and

(iii) however, an interim agreement may be obtained from this local body that they would pay such rates as may be fixed by Government in order to avoid disputes at a future date.

9. Revised administrative approval is to be accorded to the estimate amounting to Rs.265.76 lakhs for the supply of 18 mgd., of water per day to the Mangalore Fertiliser Factory, Habour and other industries, the first stage of the scheme being limited to Rs.250.76 lakhs.

10. Approval of the Cabinet is requested -

For according administrative approval to the revised estimate amounting to Rs.265.76 lakhs for the supply of 18 mgd., of water per day to the Mangalore Fertiliser Factory, Harbour and other industries, the first stage of the scheme being limited to Rs.250.76 lakhs with the conditions stipulated in sub-paras (i), (ii) and (iii) of para 8.

S. Varadan 26/9

(S. VARADAN),
Secretary to Government,
Public Works and Electricity Department.

26/9/70

tsv/-

ENCLOSURE TO C.415/70.

Comparative statement of the sanctioned estimate for Rs.153 lakhs and the revised estimate for Rs.265.76 lakhs.

(FERTILISER FACTORY WATER SUPPLY SCHEME AT MANGALORE)

| Sl. No. | Items. | Cost as per sanctioned line estimate. (15 MGD Scheme) (Rs.153 lakhs) | Costings per revised estimate (18 MGD Scheme) (Rs.265.76 lakhs) | | Excess | Savings | Remarks and reasons. |
|---|---|---|---|---|---|---|---|
| 1. | 2. | 3. | 4. | | 5. | 6. | 7. |
| 1. | Construction of two suction well-cum-pump (including revetments). | 1,25,000 | Infiltration well | 25,000 | 6,18,000 | 4,93,000 | - Excess due to tender rate and increase in scope of work as per actual requirement during execution. The original provision was approximate and LS (lump-sum). |
| | | | M.S.Strainer | 2,000 | | | |
| | | | Intake well-cum-pumphouse | 4,90,000 | | | |
| | | | Switch gear Room | 93,000 | | | |
| | | | R.C.Enclosure to valve chamber | 8,000 | | | |
| 2. | Supplying and Erecting 5 sets of verticle Turbine pump set with accessories (each of 250 HP) | 6,25,000 | Two sets of 350 H.P.Low lift & two sets of 650 High lift pumps | | 12,55,000 | 6,30,000 | - -do- |
| 3. | Prestressed concrete pipe of 36" dia.for low lift pumping main for 6000 ft. | 6,00,000 | 1000 mm M.S.Low lift pumping main. | | 6,00,000 | - | - -do- |

Conta....2....

Enclosure to C.417/70.

| 1. | 2. | 3. | 4. | | 5. | 6. | 7. |
|---|---|---|---|---|---|---|---|
| 4. | Constructing G.L.Reservoir of 7,50,000 gallons capacity. | 7,50,000 | 2.25 lakhs Gallons capacity S.R. | 2,34,000 | - | 5,16,000 | Savings due to less capacity of S.R.i.e., from 7.5 lakhs to 2.25 lakhs. |
| 5. | Prestressed concrete pipe of 36" dia. for gravity main for 96,960 ft. | 96,96,000 | a) Gravity main of 1000 mm & 900 mm. 1,36,00,000 M.S.Pipes.<br>b) R.C.Pillar supports along gravity main 10,30,000<br>c) Thrust Blocks 3,80,000<br>d) Cutting earth mounds 70,400 | 1,50,80,400 | 53,84,400 | - | Excess due to usage of M.S. Pipe and tender rates. |
| 6. | Construction of G.L.services reservoir of 2 MG capacity - 2 Nos. | 14,00,000 | | | | 14,00,000 | Savings since deleted. |
| 7. | Land acquisition charges | 1,00,000 | | 1,03,500 | 3,500 | - | Extra cost due to actual requirement. |
| 8. | Temp.Establishment charges. | 2,00,000 | | 3,55,400 | 1,55,400 | - | -do- |
| 9. | T&P Charges at 3% | 4,01,880 | | | - | 4,01,880 | Savings due to non-provision since it is a Government Scheme. |

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ENCLOSURE TO C.417/70.

| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|---|---|---|---|---|---|---|
| 10. | Escalation charges at 10% | 13,39,600 | | | 13,99,600 | Savings due to non-provision of the item since the items worked out as per actuals. |
| 11. | Miscellaneous and unforeseen charges. | 52,520 | 87,700 | 25,180 | - | All these additional items of works had not been contemplated in the original estimate; but are to be found necessary and essential for commissioning of projects. |
| 12. | Providing 9 MGD pre-treatment plants. | - | 9,90,000 | 9,90,000 | - | |
| 13. | Providing telephone connections. | - | 15,000 | 15,000 | - | |
| 14. | Providing and fixing Hydrants. | - | 6,000 | 6,000 | - | |
| 15. | Flood lighting and street lights. | - | 20,000 | 20,000 | - | |
| 16. | Sludge disposal arrangements | - | 10,000 | 10,000 | - | |
| 17. | Formation of approach road to quarters and low lift pumps. | - | 10,000 | 10,000 | - | |
| 18. | Approach road Mercara-Mangalore road from low lift pumps. | - | 47,000 | 47,000 | - | All these additional items of works had not been contemplated in the original |
| 19. | Approach road to pre-treatment unit | - | 15,600 | 15,600 | - | |

Contd...../4.....

| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|---|---|---|---|---|---|---|
| | | | | | | |
| 20. | Approach road from pre-treatment unit to RCC Reservoir at Hillock. | - | 49,000 | 49,000 | - | estimate. But are to be found to be essential for commissioning the projects as the original estimate was based on line estimate and rough assumptions. |
| 21. | High lift pumping main from treatment unit to reservoir at Hillock | - | M.S.Steel pipe 2,31,000 | 2,31,000 | - | |
| 22. | a)3 MGD filter plants | - | 3,47,000 | 3,47,000 | - | These items are deleted since the same are taken under "Deposit Contribution Work". |
| | b)Quarters at filter house | --- | 77,000 | 77,000 | - | |
| | | | 28,00,000 | 28,00,000 | | |
| 23. | a)RCC pipe cum road Bridge | - | 3,01,000 | 3,01,000 | | |
| | b)Approach road on Mangalore site | - | 1,98,000 | 1,98,000 | | |
| | c)Approach road on Udipi side | - | 20,300 | 20,300 | | |
| 24. | Trial boxes of 7.62 CM dia. | - | 5,10,000 | 5,10,000 | | |
| 25. | a)Construction of 6 MGD treatment plant | - | 95,000 | 95,000 | | |
| | b)Administrative Building | - | 1, 02,500 | 1,02, 500 | | |
| 26. | Pump-house and pump-set at Panambur | - | | | | |

Contd....5....

ENCLOSURE TO C.417/70.

| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|---|---|---|---|---|---|---|
| 27. | 1 lakh gallon RCC over head tank for back wash | - | 1,00,000 | 1,00,000 | - | - |
| 28. | 1 lakh G.L.Reservoir to feed low level areas | - | 57,000 | 57,000 | - | - |
| 29. | Formation of approach road to filter unit at Panambur | - | 70,000 | 70,000 | - | - |
| 30. | Staff quarters | - | 4,79,600 | 4,79,600 | - | - |
| 31. | Telephone connection for maintenance of pipe line | - | 60,000 | 60,000 | - | - |
| 32. | Store shed | - | 20,000 | 20,000 | - | - |
| 33. | Contingencies at 1½% | - | 4, 60,000 | 4,60,000 | - | - |
| 34. | 50 K.V.A. transformer | - | 30,000 | 30,000 | - | - |
| 35. | Delivery manifold at high lift pumping station | - | 20,000 | 20,000 | - | - |
| 36. | Maintenance during construction | - | 25,000 | 25,000 | - | - |
| | II STATE. | | | | | |
| 37. | Pre-treatment at Thumbe | - | 8,72,500 | 8,72,500 | - | - |
| 38. | Low lift and High lift pumps | - | 6,27,500 | 6,27,500 | - | - |
| | Total:- | 1,53,00,000 | 2,65,76,000 | 149,33,480 | 36,57,480. | |

tsv/-

ENCLOSURE TO C.417/70.

| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|---|---|---|---|---|---|---|
| 27. | 1 lakh gallon RCC over head tank for back wash | - | 1,00,000 | 1,00,000 | - | - |
| 28. | 1 lakh G.L.Reservoir to feed low level areas | - | 57,000 | 57,000 | - | - |
| 29. | Formation of approach road to filter unit at Panambur | - | 70,000 | 70,000 | - | - |
| 30. | Staff quarters | - | 4,79,600 | 4,79,600 | - | - |
| 31. | Telephone connection for maintenance of pipe line | - | 60,000 | 60,000 | - | - |
| 32. | Store shed | - | 20,000 | 20,000 | - | - |
| 33. | Contingencies at 1½% | - | 4,60,000 | 4,60,000 | - | - |
| 34. | 50 K.V.A. transformer | - | 30,000 | 30,000 | - | - |
| 35. | Delivery manifold at high lift pumping station | - | 20,000 | 20,000 | - | - |
| 36. | Maintenance during construction | - | 25,000 | 25,000 | - | - |
| | II STATE. | | | | | |
| 37. | Pre-treatment at Thumbe | - | 8,72,500 | 8,72,500 | - | - |
| 38. | Low lift and High lift pumps | - | 6,27,500 | 6,27,500 | - | - |
| | Total:- | 1,53,00,000 | 2,65,76,000 | 1,49,33,480 | 36,57,480. | |

tsv/-

ENCLOSURE TO C.417/70.

Comparative statement of the sanctioned estimate for Rs.153 lakhs and the revised estimate for Rs.265.76 lakhs.

(FERTILISER FACTORY WATER SUPPLY SCHEME AT MANGALORE)

| Sl. No. | Items. | Cost as per sanctioned line estimate. (15 MGD Scheme) (Rs.153 lakhs) | Costas per revised estimate (18 MGD Scheme) (Rs.265.76 lakhs) | | Excess | Savings | Remarks and reasons. |
|---|---|---|---|---|---|---|---|
| 1. | 2. | 3. | 4. | | 5. | 6. | 7. |
| 1. | Construction of two suction well-cum-pump (including revetments). | ~~1,25,000~~ 1,25,000 | Infiltration well | 25,000 | 6,18,000 | 4,93,000 | - | Excess due to tender rate and increase in scope of work as per actual requirement during execution. The original provision was approximate and LS (lump-sum). |
| | | | M.S.Strainer | 2,000 | | | | |
| | | | Intake well-cum-pumphouse | 4,90,000 | | | | |
| | | | Switch gear room | 93,000 | | | | |
| | | | R.C.Enclosure to valve chamber | 8,000 | | | | |
| 2. | Supplying and erecting 5 sets of verticle Turbine pump set with accessories (each of 250 HP) | 6,25,000 | Two sets of 350 H.P.Low lift & two sets of 650 High lift pumps | | 12,55,000 | 6,30,000 | - | -do- |
| 3. | Prestressed concrete pipe of 36" dia.for low lift pumping main for 6000 ft. | 6,00,000 | 1000 mm M.S.Law lift pumping main. | | 6,00,000 | - | - | -do- |
| 4. | ~~Constructing~~ G.L. Reservoir of | | | | | | | |

Contd....2....

Enclosure to C.417/70.

| 1. | 2. | 3. | 4. | 5. | | 6. | 7. |
|---|---|---|---|---|---|---|---|
| 4. | Constructing G.L.Reservoir of 7,50,000 gallons capacity. | 7,50,000 | 2.25 lakhs Gallons capacity S.R. | 2,34,000 | - | 5,16,000 | Savings due to less capacity of S.R.i.e., from 7.5 lakhs to 2.25 lakhs. |
| 5. | Prestressed concrete pipe of 36" dia. for gravity main-for 96,960 ft. | 96,96,000 | a) Gravity main of 1000 mm & 900 mm. 1,36,00,000 M.S.Pipes.<br>b) R.C.Pillar supports along gravity main 10,30,000<br>c) Thrust Blocks 3,80,000<br>d) Cutting earth mounds 70,400 | 1,50,80,400 | 53,84,400 | - | Excess due to usage of M.S. Pipe and tender rates. |
| 6. | Construction of G.L.services reservoir of 2 MG capacity - 2 Nos. | 14,00,000 | - | - | 14,00,000 | 14,00,000 | Savings since deleted. |
| 7. | Land acquisition charges | 1,00,000 | | 1,03,500 | 3,500 | - | Extra cost due to actual requirement. |
| 8. | Temp.Establishment charges. | 2,00,000 | | | | | |
| 9. | T&P Charges at 3% | 4,01,880 | | 3,55,400 | 1,55,400 | - | -do- |
| | | | | - | - | 4,01,880 | Savings due to non-provision since it is a Government Scheme. |

Contd...3....

ENCLOSURE TO C.417/70.

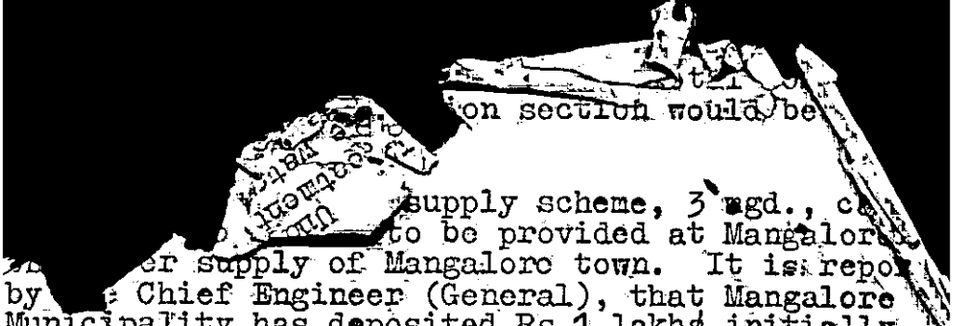
| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|---|---|---|---|---|---|---|
| 10. | Escalation charges at 10% | 13,39,600 | | | 13,99,880<br>13,99,600 | Savings due to non-provision of the item since the items worked out as per actuals. |
| 11. | Miscellaneous and unforcean charges. | 52,520 | 87,700 | 25,180<br>25,38,980 | - | All these additional itams of works had not been contemplated in the original estimate; but are to be found necessary and essential for commissioning of projects. |
| 12. | Providing 9 MGD pre-treatment plants. | - | 9,90,000 | 9,90,000<br>9,90,000 | - | |
| 13. | Providing telephone connedtions. | - | 15,000 | 15,000 | - | |
| 14. | Providing and fixing Hydrants. | - | 6,000 | 6,000 | - | |
| 15. | Flood lighting and street lights. | - | 20,000 | 20,000 | - | |
| 16. | Sludge disposal arrangements | - | 10,000 | 10,000 | - | |
| 17. | Formation of approach road to quarters and low lift pumps. | - | 10,000 | 10,000 | - | |
| 18. | Approach road Mercara-Mangalore road from low lift pumps. | - | 47,000 | 47,000 | - | All these additional items of works had not been contemplated in the original |
| 19. | Approach road to pre-treatment unit | - | 15,600 | 15,600 | - | |

Contd.....4.....

ENCLOSURE TO C.417/70.

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. | Approach road from pre-treatment unit to RCC Reservoir at Hillock. | | | 49,000 | 49,000 | - estimate. But are to be found to be essential for commissioning the projects as the original estimate was based on line estimate and rough assumptions. |
| 21. | High lift pumping main from treatment unit to reservoir at Hillock | - | M.S.Steel pipe | 2,31,000 | 2,31,000 | - |
| | | | | 3,47,000 | | |
| 22. | a)3 MGD filter plants | - | | 3,47,000 | 3,47,000 | - These items are deleted since the same are taken under "Deposit Contribution Work". |
| | b)Quarters at filter house | - | | 77,000 | 77,000 | - |
| 23. | a)RCC pipe cum road Bridge | - | | 28,00,000 | 28,00,000 | |
| | b)Approach road on Mangalore site | - | | 3,01,000 | 3,01,000 | |
| | c)Approach road on Udipi side | - | | 1,98,000 | 1,98,000 | |
| 24. | Trial boxes of 7.62 CM dia. | - | | 20,300 | 20,300 | |
| 25. | a)Construction of 6 MGD treatment plant | - | | 5,10,000 | 5,10,000 | |
| | b)Administrative Building | - | | 95,000 | 95,000 | |
| 26. | Pump-house and pump-set at Panambur | - | | 1, 02,500 | 1,02, 500 | |

Contd....5....



...on section would be ...

... supply scheme, 3 mgd., ca... to be provided at Mangalore ... er supply of Mangalore town. It is repo... by ... Chief Engineer (General), that Mangalore Municipality has deposited Rs.1 lakhs initially for the above work and has agreed to deposit the balance amount as and when the work progresses. This work is under progress as a deposit contribution work. Therefore, the provision of Rs.4.24 lakhs made for the above work in the project estimate of Rs.270 lakhs, will have to be deleted. The total revised cost of the water supply scheme will be, therefore, Rs.265.76 lakhs.

6. The increase in the estimated cost over and above the original estimated amount of Rs.153 lakhs is mainly due to the following reasons:-

(1) The original estimate envisaged supply of water to the extent of 15 million gallons per day, whereas the revised estimate provides for a supply of 18 million gallons per day. On account of this major change in the scope of the work there was an increase in the several components of the scheme which are responsible for the increased cost;

(2) The increase was due to use of M.S. pipes during execution instead of pre-stressed concrete pipes which were originally contemplated;

(3) Increase due to tender rates;

(4) Inclusion of additional items of work which were not contemplated in the original estimate but were found necessary for commissioning of the project as the original estimate was based on a line estimate and rough assumptions

A comparative statement showing the provision made for the several components of the estimates in the originally sanctioned estimate of Rs.153 lakhs and the revised estimate of Rs.265.76 lakhs showing reasons for excess and savings is enclosed.

7. In Government Order No.PWD.25.GWS.67 (Vol.III) dated 2nd March, 1968 the rate for supply of water under this scheme has been fixed at 60 paise per 1,000 gallons in the initial stage with a view to showing some incentive to the Fertiliser Industry to be set up. The water rate is expected to be reviewed after 5 years by which time the factory would have attained financial stability.

Contd.....3....

Proceedings of the Government of Mysore
(Public Works & Electricity Department)

-:o:-

Subject: Water Supply to the Fertilizer Factory at Mangalore - Fixation of Water Rate - Execution of Agreement thereof -

Ref'nce: 1) G.O.NO.Ø CI 41 GMP 67, dated from the Secretary, Commerce and Industries Department;
2) Correspondence ending with letter No.PHC 7 WSD(E) 67-68, dated 13-12-1967 from the Chief Engineer, (Gl),B'lore,
3) Representation dated 22-12-1967 from Shri. K.K. Khanna, Malabar Chemicals and Fertilizers Limited, Jeevan Vihar, Parliament Street, New Delhi.

-:-

Preamble.- The Chief Engineer, General, Bangalore, in his letter cited above has forwarded proposals for fixation of water rate to be charged per 1,000 gallons for the water supplied to the Malabar Chemicals and Fertiliser Factory at Mangalore.

It is indicated that the consumption of water from Appil, 1969 to April, 1972 both for the Fertilizer Factory Mangalore Town and that of the port will be about 3 MGD. and thereafter the consumption will gradually increase, and from April, 1972 onwards it is anticipated to be of the order of 15 M.G.D. Though the scheme can supply 18 M.G.D. from April, 1972 onwards, it would not be possible to levy the water charges taking into consideration the full capital cost, as such a rate would be higher and the industry being in initial stages would very much feel that rate as a burden.

In order to arrive at a reasonable rate to be charged in the initial stages of the industry the matter was considered in greater detail in a meeting held on 21.12.1967 Ø in the Chambers of the Secretary, Public Works & Electricity Department which was attended by the Secretary to Government,Finance Department, Secretary to Government, Commerce and Industries Department, Joint Secretary to Government, Public Works Department, and the Chief Engineer, (Gl.) Bangalore, Subsequently discussions were held in the meeting of the Minister for Public Works and Electricity and Minister for Finance On detailed consideration of the matter decision was taken to levy a rate of 60 paise per 1,000 gallons in the initial stage with a view to giving some incentive to the Industry and then the same to be ~~vi~~ reviewed after a period of 5 years from the date, on which the Factory would reach 75 to 85 per cent of its capacity, when by that time the Factory will have attained the financial stability.

NO.PWD 25 GWS 67(Vol.III)

Bangalore, dated the 2 March, 1968

After careful consideration of the above matter, Government are pleased to direct (1) that the water rate may be charged at i.e.0-60 Paise per 1,000 gallons in the intitial stage with a view to showing some incentive to this industry to be set up by Messrs. Malabar Chemical and Fertilizers Limited, New Delhi, (2) The Water rate may be reviewed after five years by which time the Factory will have attained financial stability.

2. This order issues with the concurrence of Finance Department vide their U.O.Note No.FD 785/FS. dated 7-2-1968.

By Order and in the name of the
Governor of Mysore,

(M.CHINNAPPA)
DEPUTY SECRETARY TO GOVERNMENT
PUBLIC WORKS DEPARTMENT(IRR.)

1) The Chief Engineer, General, Bangalore,
2) The Accountant General, Mysore, Bangalore (In duplicate),
3) The Finance Department (Budget),
4) The Commerce and Industries Department,
5) Weekly Gazette with an Index slip.